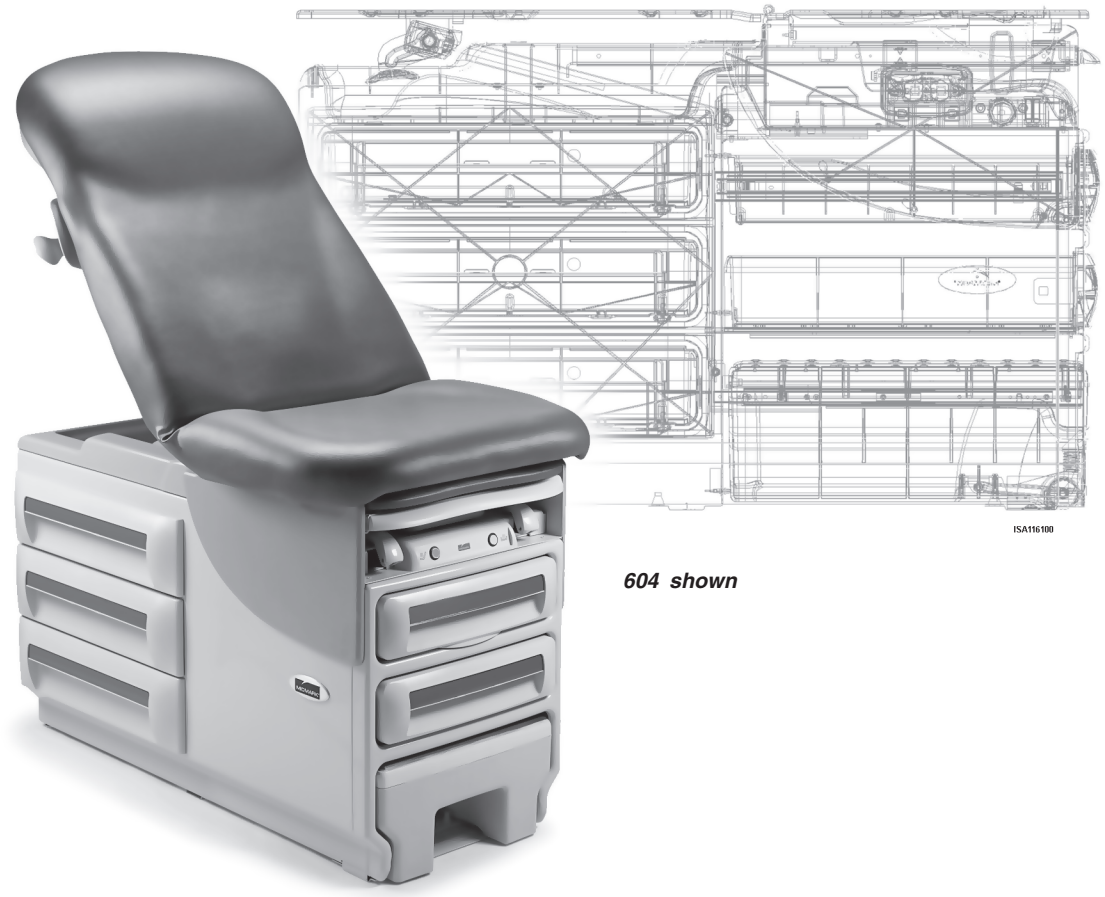
Manual Examination Table

Model Numbers:

204 -001 thru -007

604 -001 thru -006

Service and Parts Manual



604 shown

FOR USE BY MIDMARK TRAINED TECHNICIANS ONLY

SF-1864

Part No. 004-0483-00 Rev. F (4/7/15)

Style B

Back

Next

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Section E

EXPLODED VIEWS / PARTS LISTS

204:
(-001 / -002 / -005 /-007) E-2
(-003 / -004) E-3
604 *(all)* E-4

General Information

Symbols

Caution
Indicates a potentially hazardous situation which could result in injury if not avoided.

Equipment Alert
Indicates a potentially hazardous situation which could result in equipment damage if not avoided.

Note
Amplifies a procedure, practice, or condition.

In Section A, test the components in the order indicated. (ex. ***1st*** ✓ then, ***2nd*** ✓)

Refer to Section B for component testing procedures.

These symbols are used throughout this manual to represent the operational status of table functions and components.

Indicates the function / component is working properly. No action required.

Indicates the function / component is working, but a problem exists.

Indicates the function / component is not working at all.

Ordering Parts

The following information is required when ordering parts:

- Serial number & model number
- Part number for desired part.
  [Refer to Exploded Views / Parts Lists section]

<u>Non-warranty</u> part orders may be faxed to Midmark using the Fax Order Form in the back of this manual.

For warranty part orders, call Midmark's Technical Service Department with the required information.
Hours: 8:00 am until 5:00 pm EST [Monday - Friday]
Phone: 1-(800)-Midmark

Model / Serial Number Location

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General Information

Specifications

Maximum Patient Weight: ..... 500 lbs (226 kg)

Electrical Supply Requirements: ..... [See *Model Identification Chart*]

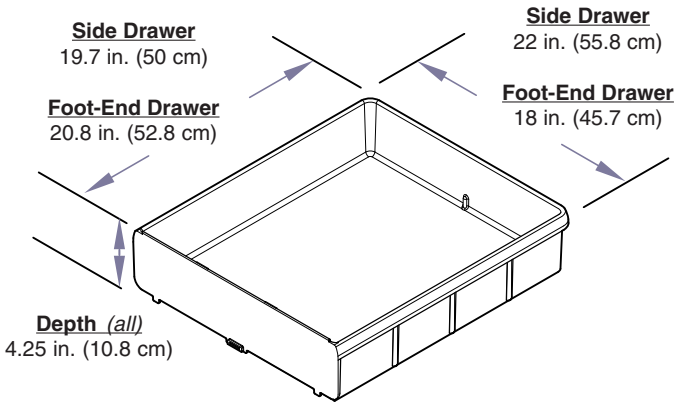
Paper Roll (maximum size): ..... 21 in. wide x 3.5 in. diameter (53 cm x 9 cm)

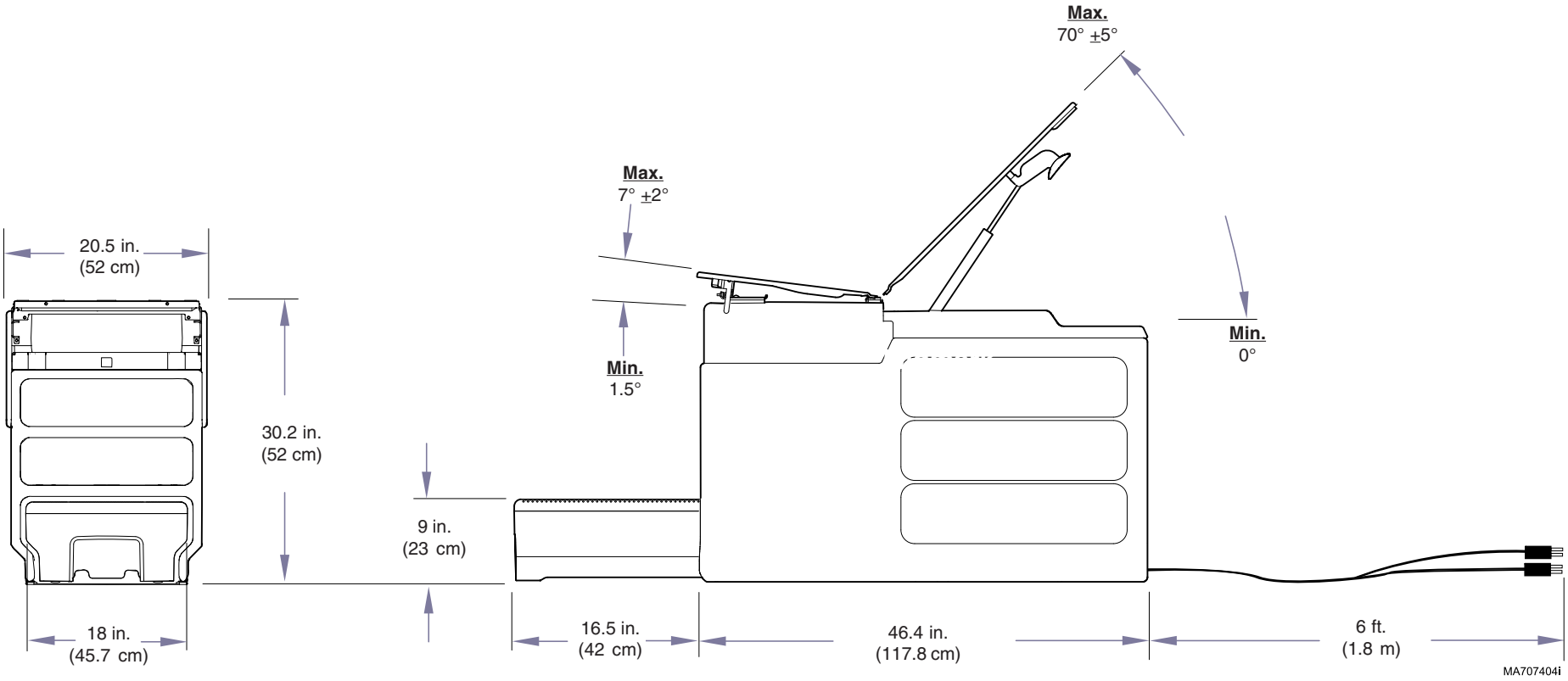
Range of Motion & Dimensions ..... (See illustrations)

Weight of Table: ..... 220 lbs (99.8 kg)
w/packaging & skid ..... 273 lbs (123.8 kg)

Receptacle Power Cord: ..... 6 ft. (1.8 m) long

Drawer / Uph. Heater Power Cord: ..... 6 ft. (1.8 m) long





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Model Identification Chart - 204

Fire Code Ratings

All standard upholstery sets comply with: California Bureau of Home Furnishing Technical Bulletin 117
Optional upholstery sets are available that comply with:California Bureau of Home Furnishing Technical Bulletin 133.

Model	Description	Electrical Supply Requirements:		
		VAC +/-10%	Amps	Cycles (Hz)
204-001	**Ritter Exam Table** *(Pass-thru Drawers) w/ Receptacle*	115	5	50 / 60
204-002	**Ritter Exam Table** *(Pass-thru Drawers) w/ Receptacle, Pelvic Tilt, & Drawer Heater*	115	5.5	50 / 60
204-003	**Ritter Exam Table** *(Bulk Storage) w/ Receptacle*	115	5	50 / 60
204-004	**Ritter Exam Table** *(Bulk Storage) w/ Receptacle, Pelvic Tilt, & Drawer Heater*	115	5.5	50 / 60
204-005	**Ritter Exam Table - Export** *(Pass-thru Drawers) w/ Pelvic Tilt*	-	-	-
204-006	**Ritter Exam Table- - Export** *(Pass-thru Drawers) w/ Receptacle, & Pelvic Tilt*	230	5	50 / 60
204-007	**Ritter Exam Table- - Export** *(Pass-thru Drawers) w/ Receptacle, Pelvic Tilt, & Drawer Heater*	230	5.5	50 / 60

Regulatory compliance information is available by calling 1-800-643-6275 or 1-937-526-3662.

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General Information

Model Identification Chart - 604

Fire Code Ratings

All standard upholstery sets comply with: California Bureau of Home Furnishing Technical Bulletin 117
Optional upholstery sets are available that comply with:California Bureau of Home Furnishing Technical Bulletin 133.

Model	Description	Electrical Supply Requirements:		
		VAC +/-10%	Amps	Cycles (Hz)
604-001	**Midmark Exam Table** *w/ Receptacle*	115	5	50 / 60
604-002	**Midmark Exam Table** *w/ Receptacle, Pelvic Tilt, & Drawer Heater*	115	5.5	50 / 60
604-003	**Midmark Exam Table** *w/ Receptacle, Pelvic Tilt, Drawer Heater, & Heated Upholstery*	115	6.5	50 / 60
604-004	**Midmark Exam Table - Export** *w/ Pelvic Tilt*	-	-	-
604-005	**Midmark Exam Table - Export** *w/ Receptacle, & Pelvic Tilt*	230	5	50 / 60
604-006	**Midmark Exam Table - Export** *w/ Receptacle, Pelvic Tilt, & Drawer Heater*	230	5.5	50 / 60

Regulatory compliance information is available by calling 1-800-643-6275 or 1-937-526-3662.

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Warranty Information

SCOPE OF WARRANTY

Midmark Corporation (“Midmark”) warrants to the original purchaser its new Alternate Care products and components (except for components not warranted under “Exclusions”) manufactured by Midmark to be free from defects in material and workmanship under normal use and service. Midmark’s obligation under this warranty is limited to the repair or replacement, at Midmark’s option, of the parts or the products the defects of which are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective.

APPLICABLE WARRANTY PERIOD

The applicable warranty period, measured from the date of delivery to the original user, shall be one (1) year for all warranted products and components.

EXCLUSIONS

This warranty does not cover and Midmark shall not be liable for the following: (1) repairs and replacements because of misuse, abuse, negligence, alteration, accident, freight damage, or tampering; (2) products which are not installed, used, and properly cleaned as required in the Midmark “Installation” and or “Installation / Operation Manual for this applicable product. (3) products considered to be of a consumable nature; (4) accessories or parts not manufactured by Midmark; (5) charges by anyone for adjustments, repairs, replacement parts, installation, or other work performed upon or in connection with such products which is not expressly authorized in writing in advance by Midmark.

EXCLUSIVE REMEDY

Midmark’s only obligation under this warranty is the repair or replacement of defective parts. Midmark shall not be liable for any direct, special, indirect, incidental, exemplary, or consequential damages or delay, including, but not limited to, damages for loss of profits or loss of use.

NO AUTHORIZATION

No person or firm is authorized to create for Midmark any other obligation or liability in connection with the products.

THIS WARRANTY IS MIDMARK’S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. MIDMARK MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS.

SF-1487 REV. A1

Additional Information

Failure to follow the guidelines listed below will void the warranty and/or render the table unsafe for use.

- If a malfunction is detected, do not use the table until necessary repairs are made.
- Do not attempt to disassemble table, replace components, or perform adjustments unless you are a Midmark authorized service technician.
- Do not use another manufacturer's parts to replace malfunctioning components. Use only Midmark replacement parts

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Section A

Troubleshooting

Function / System	Go To Page:
Back Section Positioning	A-2
Table Receptacle	A-5
Drawer Heater	A-7
Upholstery Heater	A-11

Click on the Go To Page button and enter the desired page number.

(Note: Letters are case sensitve ex. A-2, not a-2)

Troubleshooting

Back Section Positioning

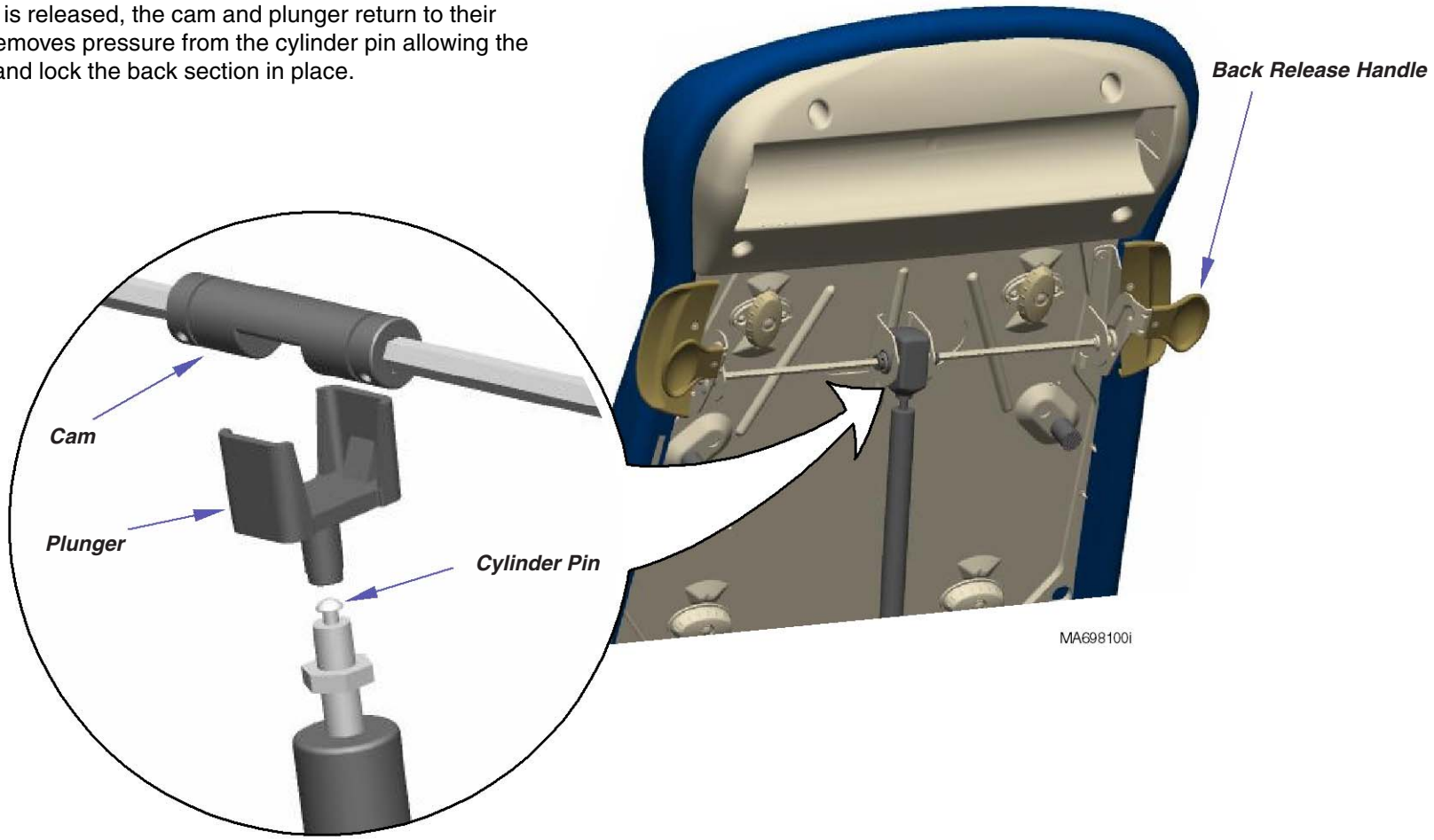
Back Section Positioning

Problem	Go To Page:
Back drifts up or down	A-3
Back locked in place	A-4
Difficult to position	A-4

Back Section Release Mechanism

When either back release handle is squeezed, linkage rotates the cam. The rotating cam pushes the plunger down, compressing the cylinder pin. When the cylinder pin is compressed, the pressure inside the cylinder is released, allowing the back section to be repositioned.

When the back handle is released, the cam and plunger return to their normal position. This removes pressure from the cylinder pin allowing the cylinder to pressurize and lock the back section in place.



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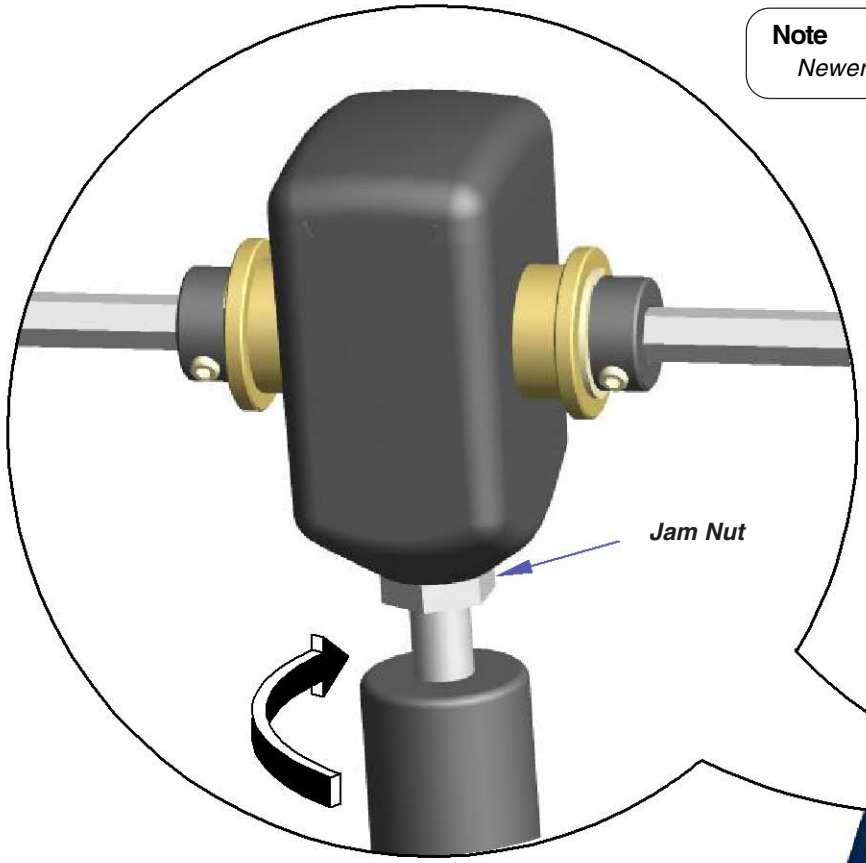
Troubleshooting

Back Section Positioning - continued

Problem: *Back section drifts up or down.*

Refer To: Go To Page:
Gas Cylinder Replacement B-3

Note
Newer units may have two jam nuts.

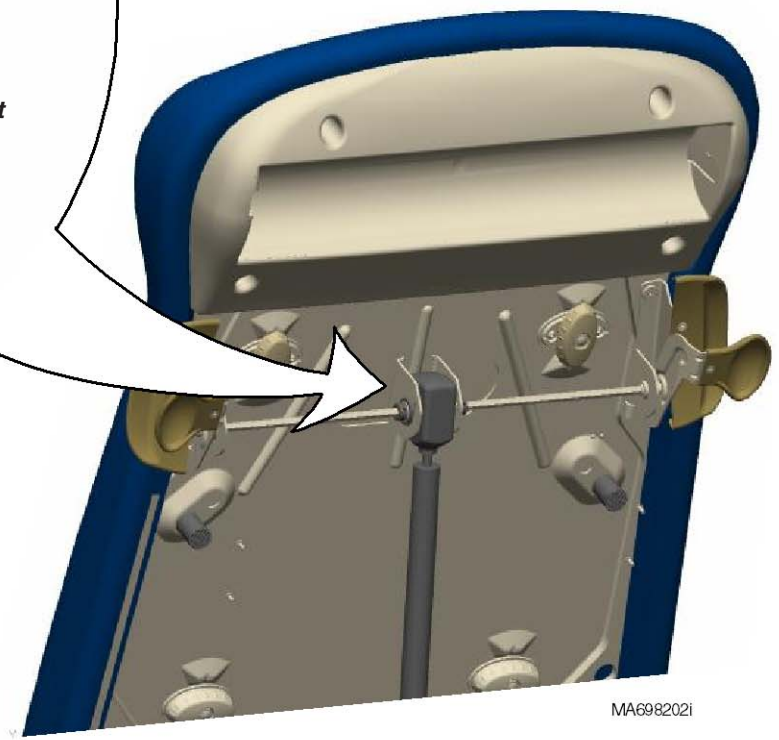


1st ✓

Gas cylinder screwed in too far.
A. Loosen jam nut(s).
B. Unscrew cylinder slightly.
C. Tighten jam nut(s), then test.

2nd ✓

Replace gas cylinder.
Refer to: Section B - Back Release Mechanism



Models: All
Serial Numbers: All

Back Section Positioning

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Troubleshooting

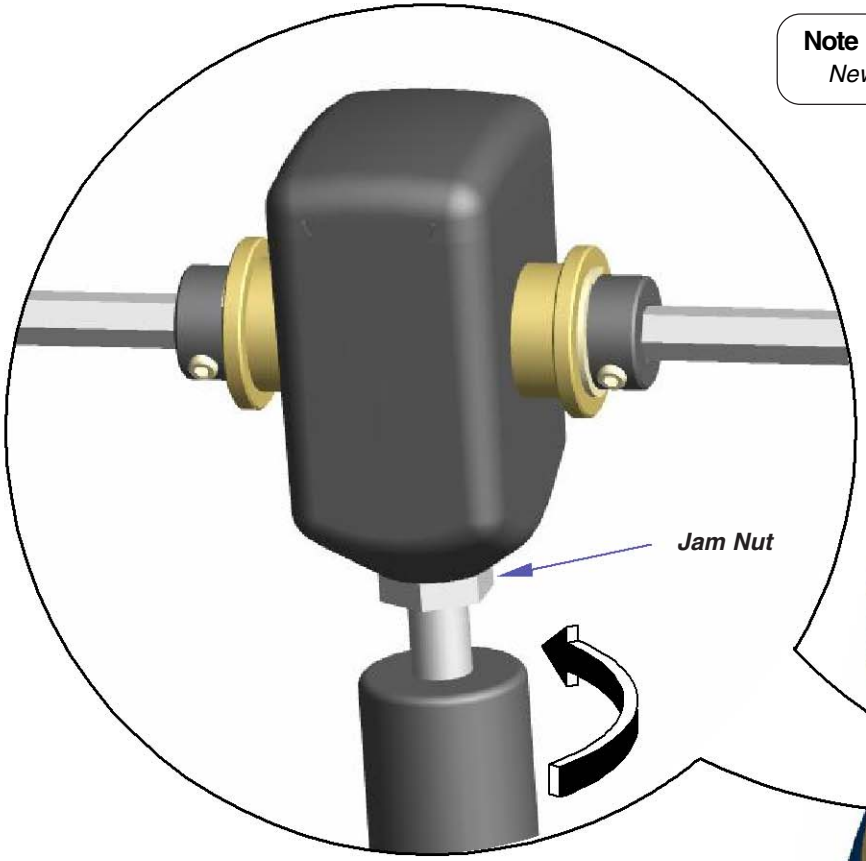
Back Section Positioning - continued

Problem: *Back section is "locked" in place. **-or-** Back section is difficult to position.*

Refer To: (Go To Page:)

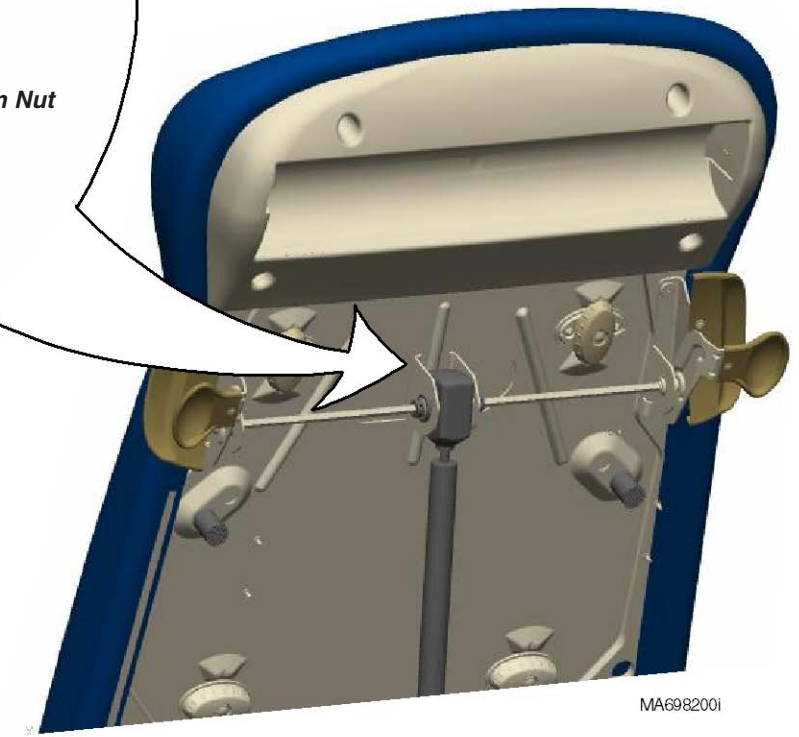
Gas Cylinder Replacement B-3

Note
Newer units may have two jam nuts.



Gas cylinder is not screwed in far enough. 1st ✓
A. Loosen jam nut(s).
B. Screw cylinder in slightly.
C. Tighten jam nut(s), then test.

Replace gas cylinder. 2nd ✓
Refer to: Section B - Back Release Mechanism



Back Section Positioning

Models: All
Serial Numbers: All

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Table Receptacle System - optional

Table Receptacle System

Problem Go To Page:

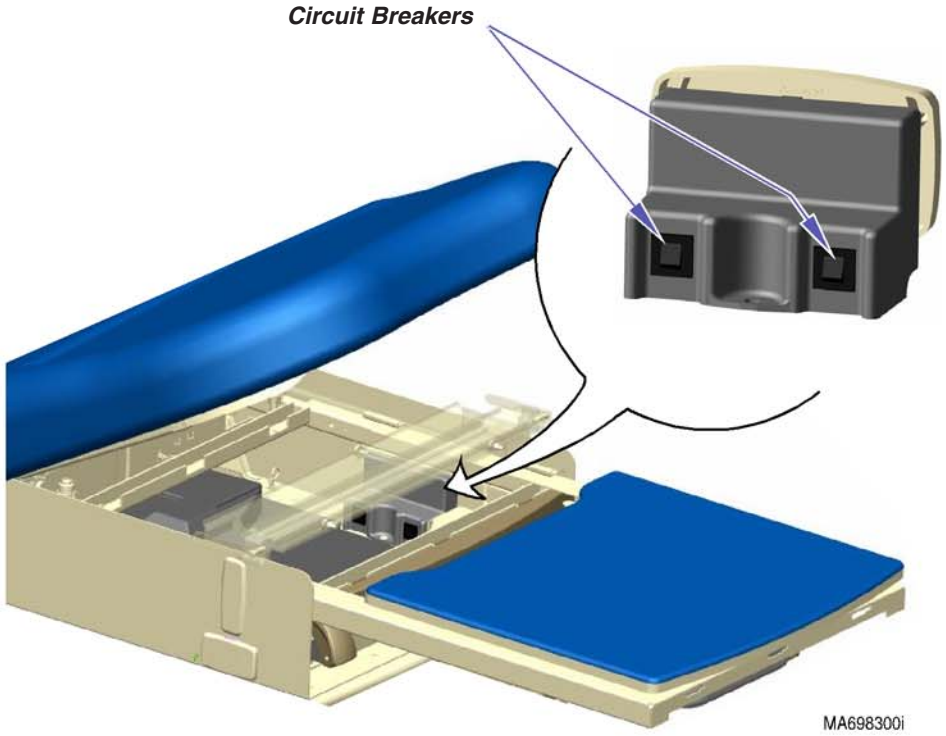
No power at receptacle A-6

Table Receptacle Operation

With the receptacle power cord properly connected, line voltage *(115 VAC)* is supplied directly to the two receptacle circuit breakers.

115 VAC flows thru the two circuit breakers to the receptacle. If the receptacle's maximum load is exceeded, the circuit breakers interrupt power to the receptacle.

Maximum Load *(both outlets combined) ..... 115 VAC, 5 amps*



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Troubleshooting

Table Receptacle System - continued

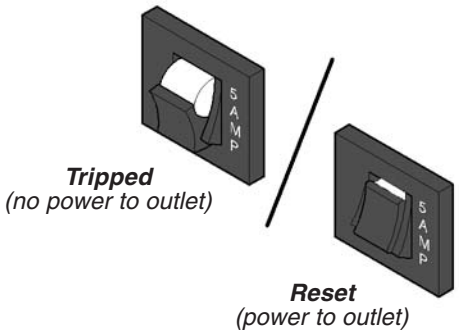
Problem: *No power at receptacle.*

Refer To: | **Go To Page:**

Receptacle Supply Voltage Test B-5
Wiring Diagrams D-1

Are circuit breakers tripped? 1st ✓

Push toggle switches inward to reset.



Tripped
(no power to outlet)

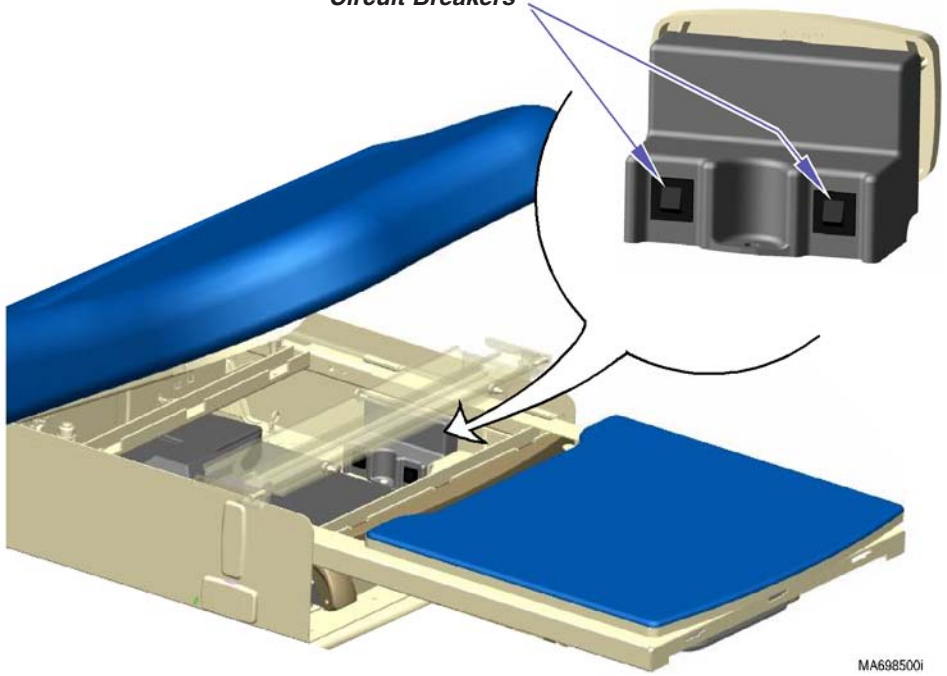
Reset
(power to outlet)

Loose / disconnected wire connections. 2nd ✓

Check the following connections:

- *Receptacle power cord to supply source*
- *Receptacle power cord to circuit breakers*
- *Circuit breakers to receptacle*

Circuit Breakers



Perform *Receptacle Supply Voltage Test* 3rd ✓

Refer to: Section B - Table Receptacle System

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Drawer Heater System - optional

Drawer Heater Operation
With the heater system's power cord properly connected, 115 VAC is supplied to the drawer heater switch thru two fuses on the distribution board.

When pressed ON, the switch illuminates and current flows to the heater plate. When the heater plate is energized, it warms the contents of the drawer to approximately 98° F (37° C).

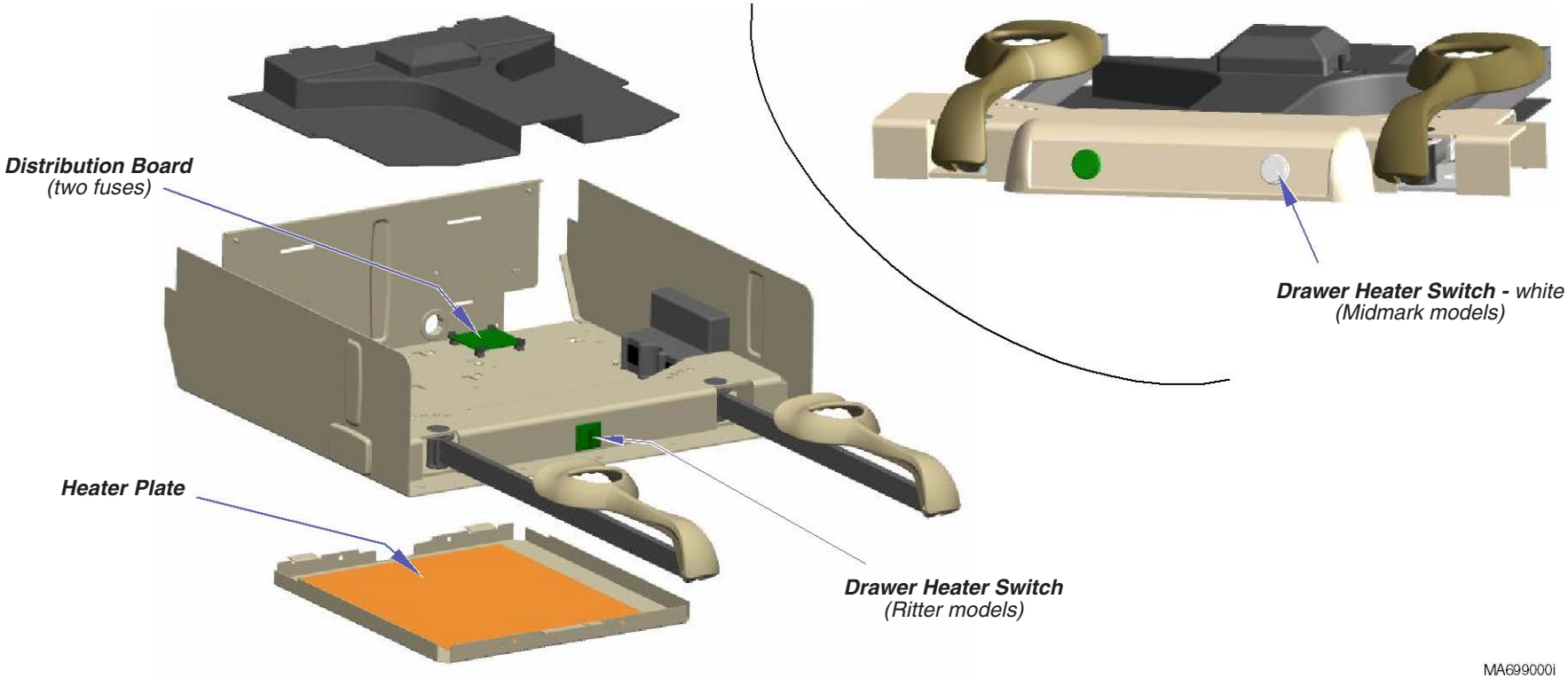
Drawer Heater System

Problem — *Go To Page:*

Heater does not warm up:
- *Switch does not illuminate* A-8
- *Switch illuminates* A-9

Heater works properly, *but...*
- *Switch does not illuminate* A-10

[Midmark model shown has green switch for optional upholstery heater]



MA699000i

Models:	204 (-002 & -004)	604 (-002 & -003)
Serial Numbers:	All	All

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Troubleshooting

Drawer Heater System - continued

Problem: *Drawer heater does not warm up - **and** Drawer heater switch does not illuminate.*

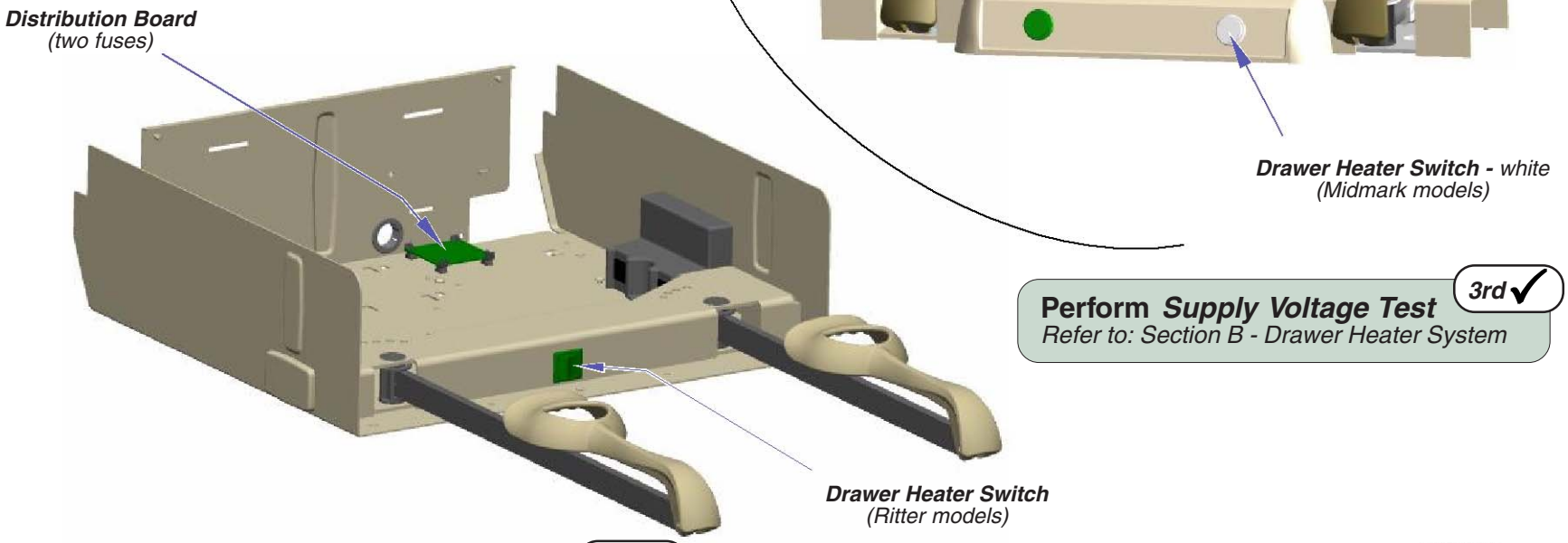
Refer To: | **Go To Page:**

Supply Voltage Test:
- *204 (Ritter)* B-7
- *604 (Midmark)* B-8

Wiring Diagrams D-1

[Midmark model shown has green switch for optional upholstery heater]

1st ✓ Check fuses on distribution board
If either fuse is blown, replace both fuses.



3rd ✓ Perform *Supply Voltage Test*
Refer to: Section B - Drawer Heater System

2nd ✓ Loose / disconnected wire connections.
Check the following connections:
- *Heater system power cord to supply source*
- *Heater system power cord to distribution board*
- *Distribution board to heater switch*

MA699100i

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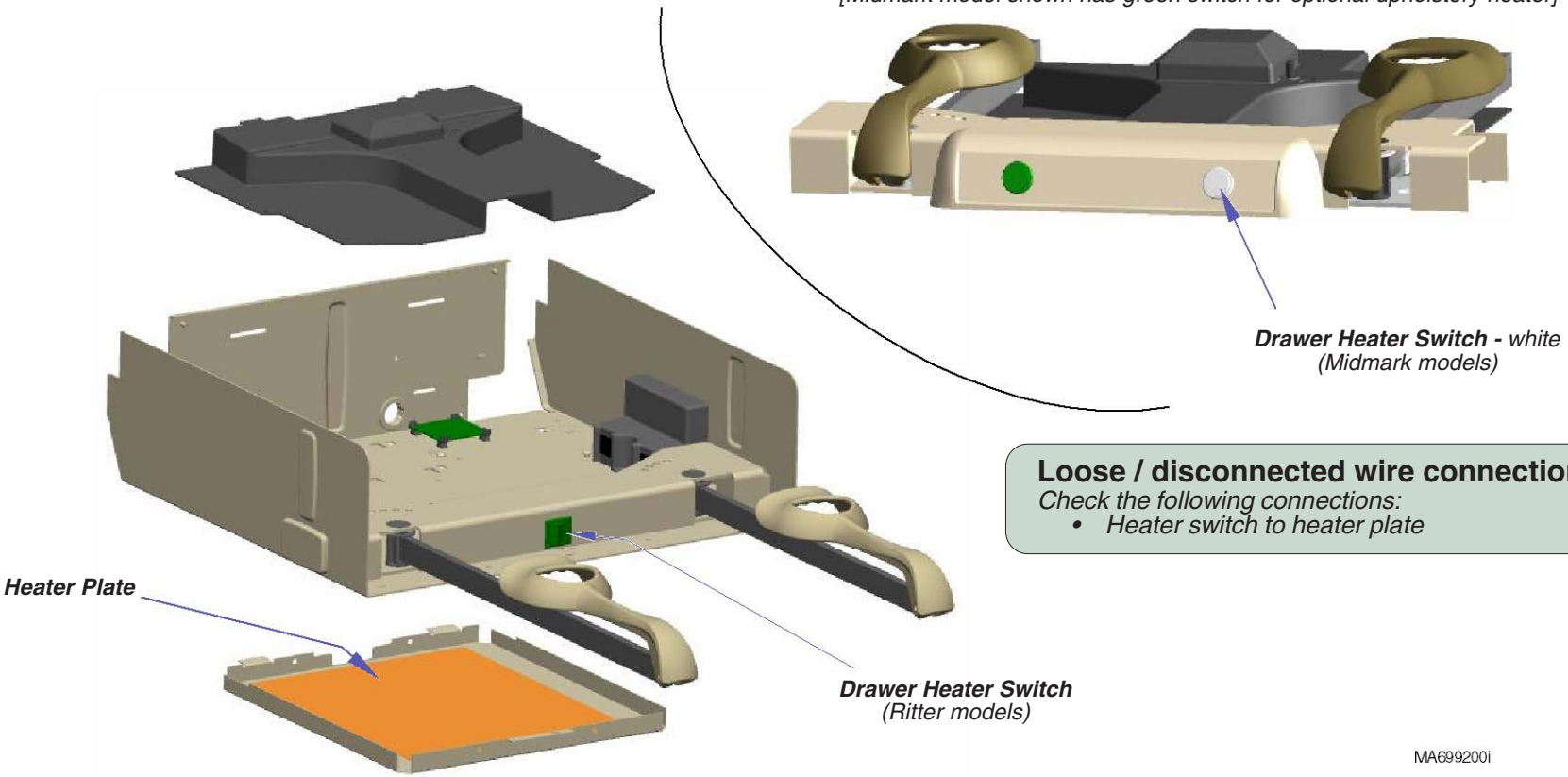
Drawer Heater System - *continued*

Problem: *Drawer heater does not warm up -* ***but*** *Drawer heater switch does illuminate,*

Refer To: **Go To Page:**

Heater Plate Test:
204 (Ritter) B-11
604 (Midmark) B-12
Wiring Diagrams D-1

[Midmark model shown has green switch for optional upholstery heater]



MA699200i

1st ✓ Loose / disconnected wire connections.
Check the following connections:
- *Heater switch to heater plate*

2nd ✓ Perform *Heater Plate Test*
Refer to: Section B - Drawer Heater System

Models: *Serial Numbers:*	***204*** *(-002 & -004)* *All*	***604*** *(-002 & -003)* *All*

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Troubleshooting

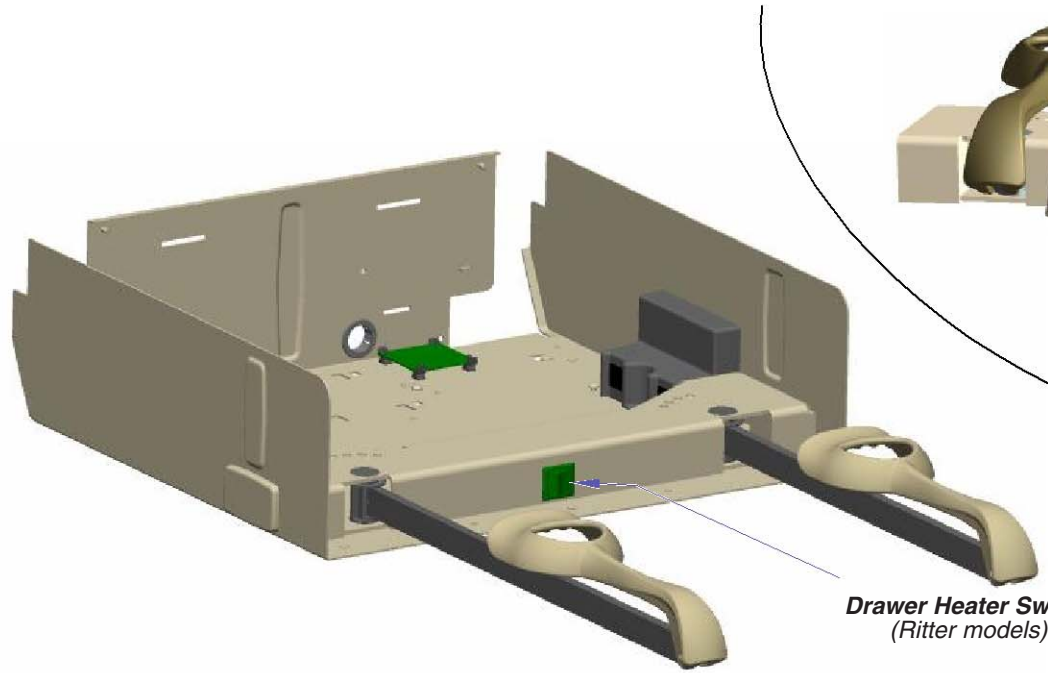
Drawer Heater System - continued

Problem: *Drawer heater warms up - **but** Drawer heater switch does not illuminate.*

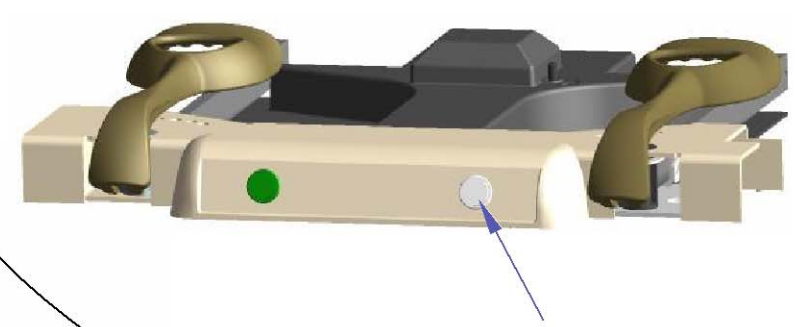
Refer To: **Go To Page:**

Heater Switch Replacement:
204 (Ritter) B-9
604 (Midmark) B-10
Wiring Diagrams D-1

[Midmark model shown has green switch for optional upholstery heater]



Drawer Heater Switch *(Ritter models)*



Drawer Heater Switch - *white (Midmark models)*

Replace drawer heater switch 1st ✓
Refer to: Section B - Drawer Heater System

MA699300i

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Upholstery Heater System - optional

Upholstery Heater System

Problem — Go To Page:

Switch does not illuminate, *and...*
- *Heater does not work* A-12
- *Heater does work* A-13

Switch does illuminate, *but...*
- Heater does not work A-14

Switch & heater both work, *but...*
- shut off prematurely A-15

Upholstery Heater Operation

With the heater system's power cord properly connected, 115 VAC is supplied to the upholstery heater PC board thru the distribution board.

Note
Current does not flow thru the two fuses on the distribution board. The distribution board is merely a connection point for the upholstery heater system.

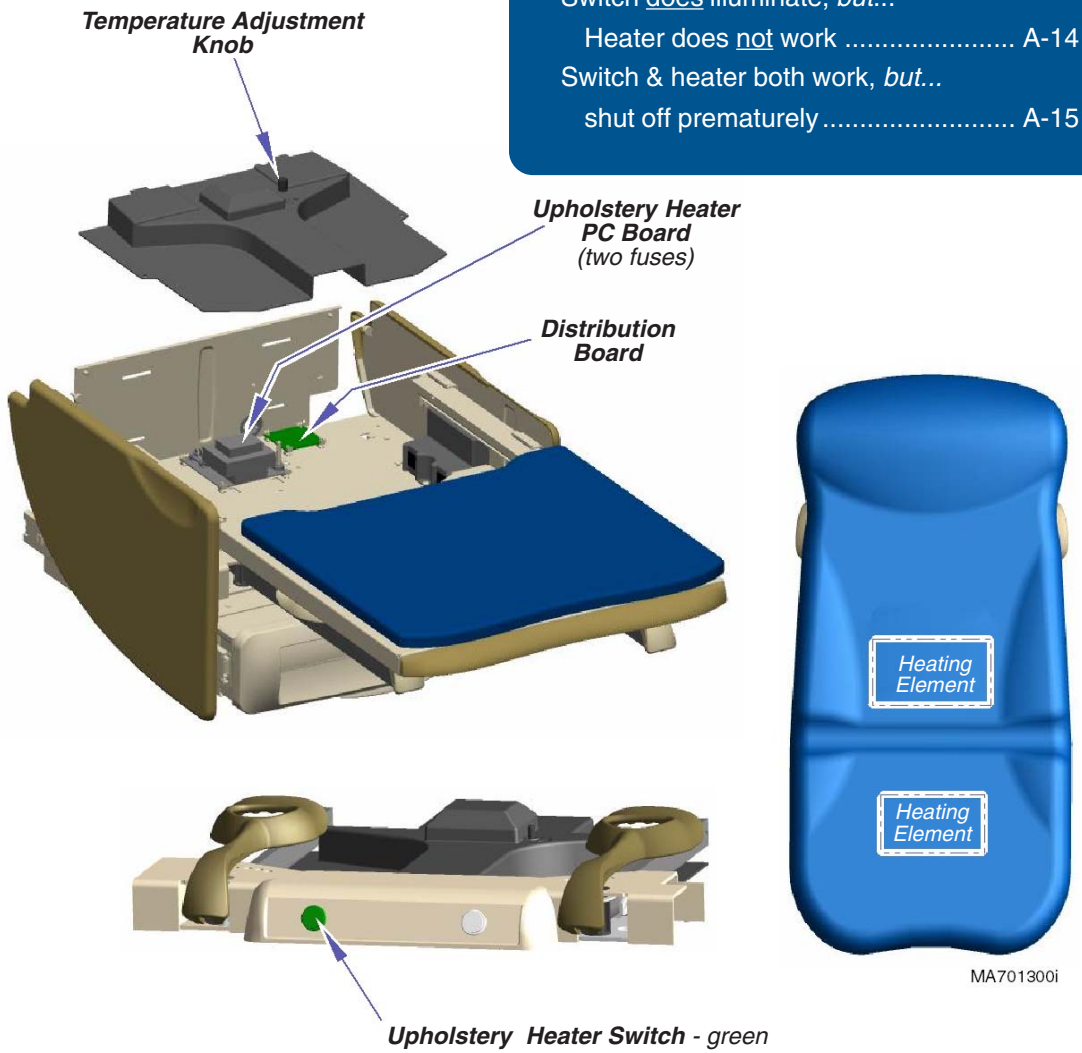
The two fuses (F1 & F2) on the uph. heater PC board protect this system from excessive current.

Circuitry on the upholstery heater PC board reduces the line voltage, and supplies approximately 12 VAC to the upholstery heater switch.

When the upholstery heater switch is pressed ON, the switch illuminates and 12 VAC is supplied to the two upholstery heating elements. When the heating elements are energized, they warm the back & seat sections of the upholstered top. Pressing the heater button again, turns the heater system OFF.

Note
The upholstery temperature can be adjusted. Refer to Section B: Upholstery Heater System.

A timer on the upholstery heater PC board automatically turns the heater OFF after 8 hours. The timer is initiated when the upholstery heater switch is pressed ON.



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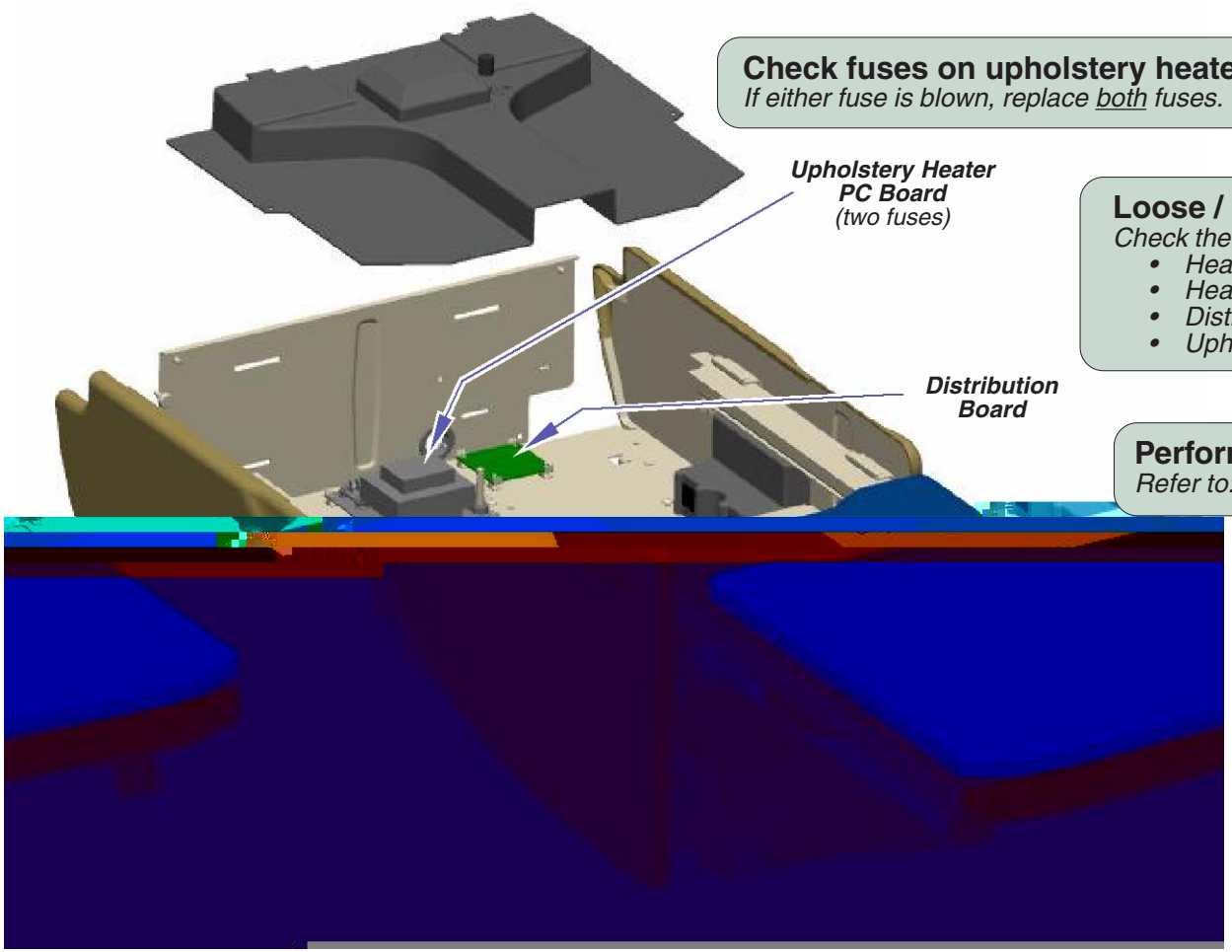
Troubleshooting

Upholstery Heater System - continued

Problem: *Uph. heater switch does not illuminate - **and** Upholstery heater does not work.*

Refer To:

	Go To Page:
Supply Voltage Test	B-15
Wiring Diagrams	D-1



Check fuses on upholstery heater PC board. 1st ✓
If either fuse is blown, replace both fuses.

Loose / disconnected wire connections. 2nd ✓
Check the following connections:
- *Heater system power cord to supply source*
- *Heater system power cord to distribution board*
- *Distribution board to uph. PC board*
- *Uph. PC board to uph. heater switch*

Perform *Supply Voltage Test* 3rd ✓
Refer to: Section B - Upholstery Heater System

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Upholstery Heater System - *continued*

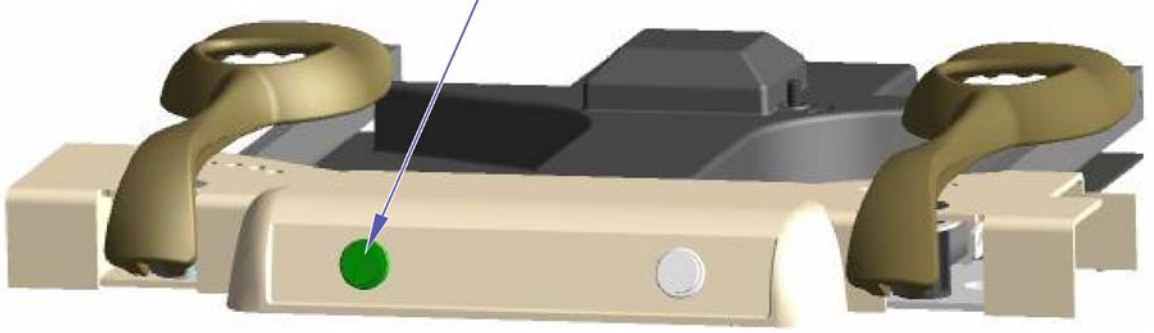
Problem: *Uph. heater switch does not illuminate* - ***but*** *Upholstery heater does work.*

Refer To: — **Go To Page:**

Uph. Heater Switch Replacement B-18
Wiring Diagrams D-1

1st ✓

Replace upholstery heater switch.
Refer to: Section B - Upholstery Heater System



MA701500i

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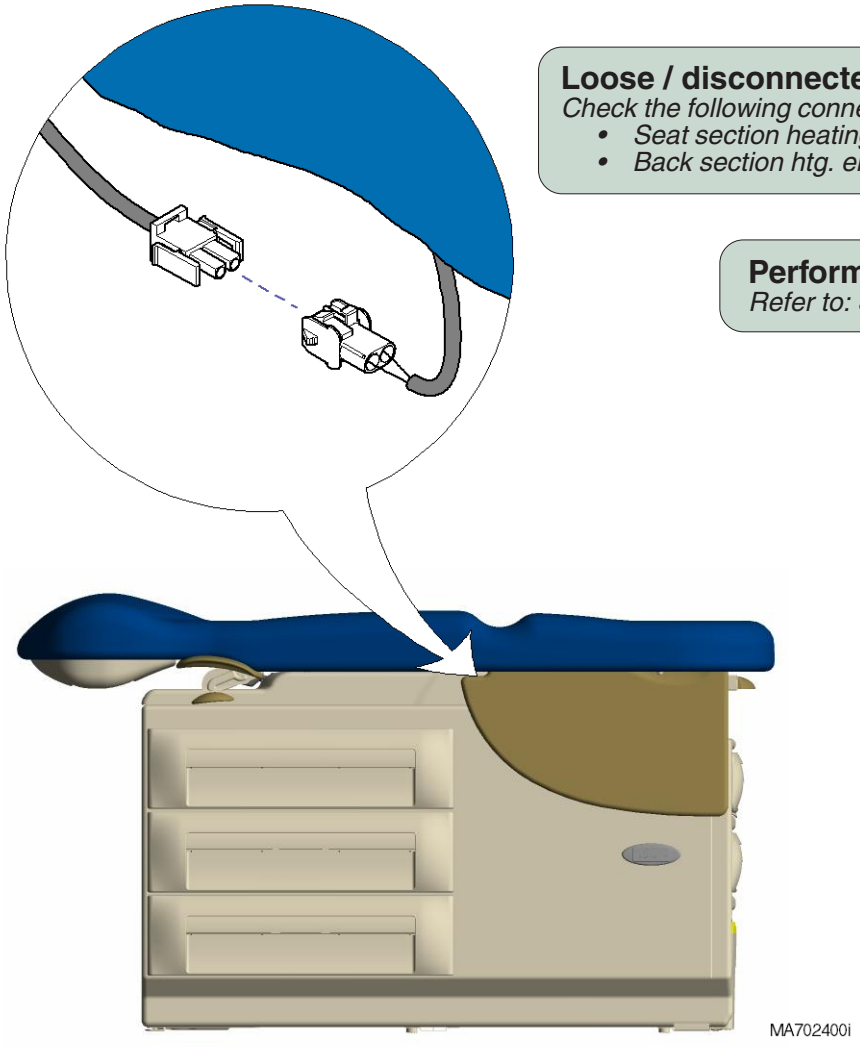
Troubleshooting

Upholstery Heater System - *continued*

Problem: *Uph. heater switch does illuminate - **but** Upholstery heater does not work.*

Refer To: **Go To Page:**

Heating Element Test B-17
Wiring Diagrams D-1



Loose / disconnected wire connections. *1st* ✓

Check the following connections:

- *Seat section heating element to uph. PC board*
- *Back section htg. element to seat section htg. element*

Perform *Heating Element Test* *2nd* ✓

Refer to: Section B - Upholstery Heater System

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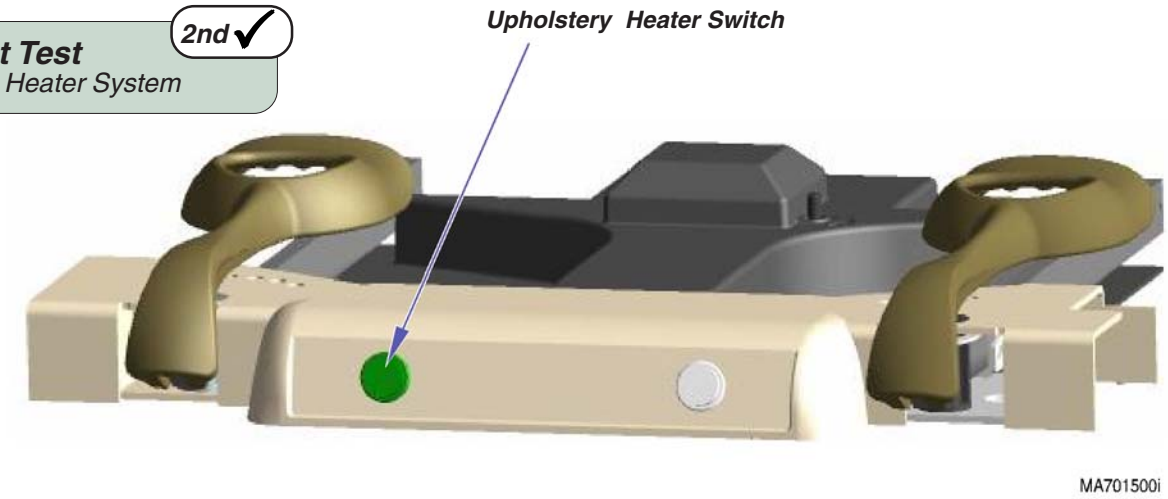
Upholstery Heater System - *continued*

Problem: *Uph. heater & switch both work **but** shut off prematurely.*

Refer To: | **Go To Page:**
Heating Element Test B-17
Wiring Diagrams D-1

Timed cycle has expired. *1st ✓*
Upholstery heater shuts OFF automatically after 8 hours.
Press uph. heater switch to turn heater back ON.

Perform *Heating Element Test* *2nd ✓*
Refer to: Section B - Upholstery Heater System



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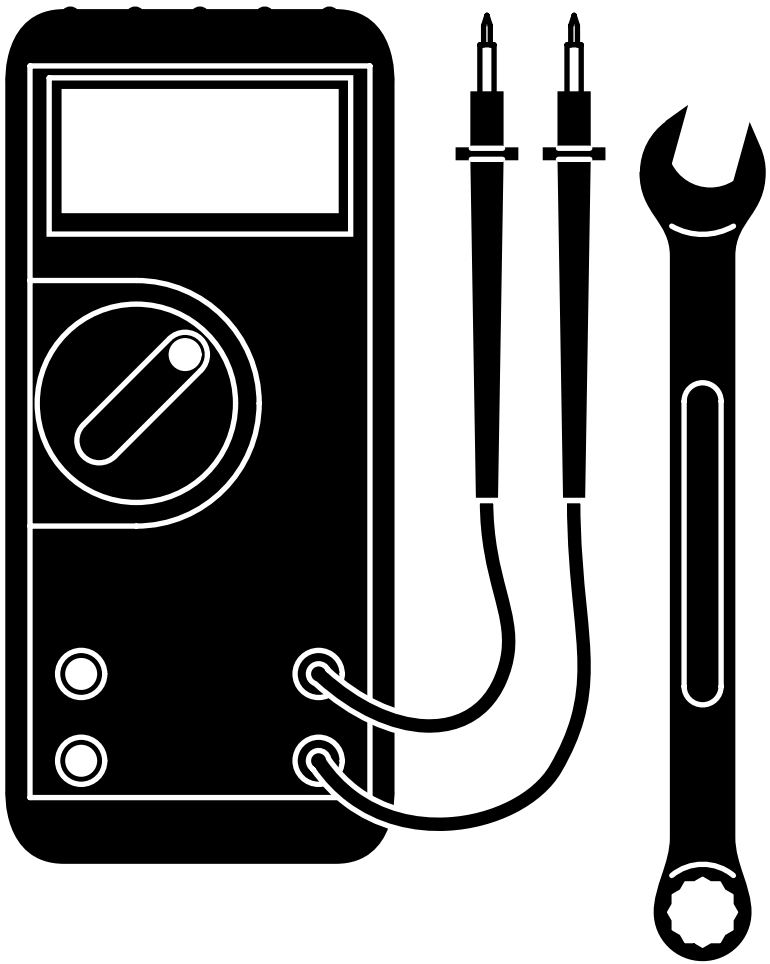
Section B

Testing & Repair



Components — Go To Page:

Back Release Mechanism B-2
Table Receptacle System B-4
Drawer Heater System B-6
Upholstery Heater System B-14
Stirrups B-20
Footrest Extension Replacement B-21
Footstep Replacement:
204 (Ritter models) B-22
604 (Midmark models) B-23

Click on the Go To Page button and enter the desired page number.

(Note: Letters are case sensitve ex. A-2, not a-2)

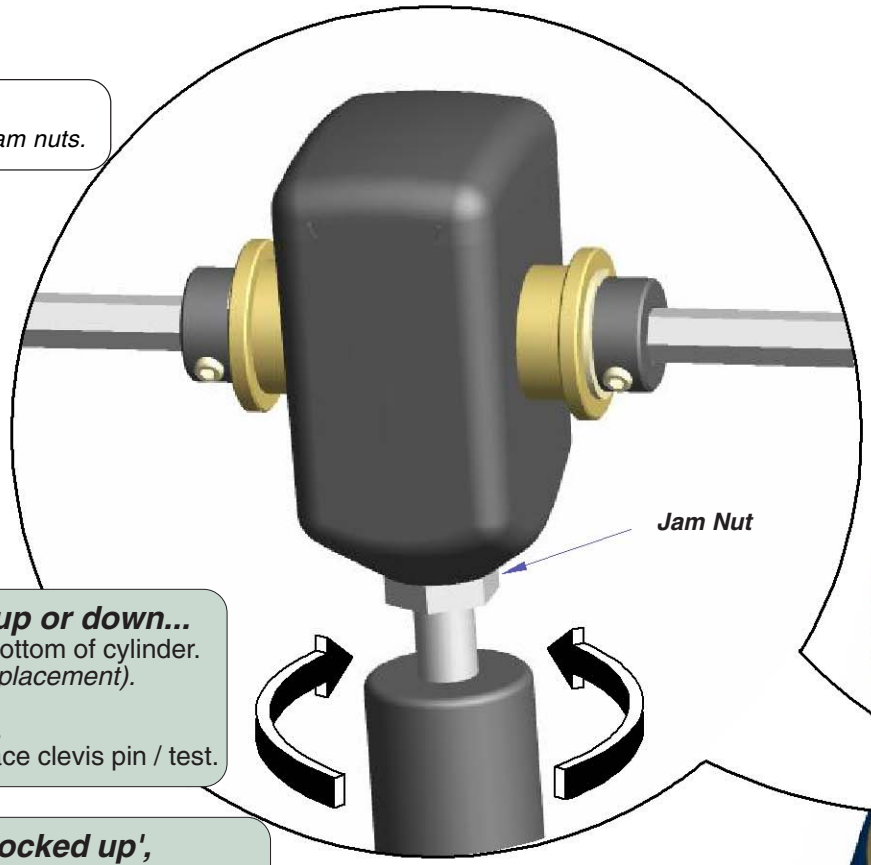
Testing & Repair

Back Release Mechanism

Gas Cylinder Adjustment

Back Release Mechanism — Go To Page:
Gas Cylinder Adjustment B-2
Gas Cylinder Replacement B-3
Exploded Views / Part Numbers E-9

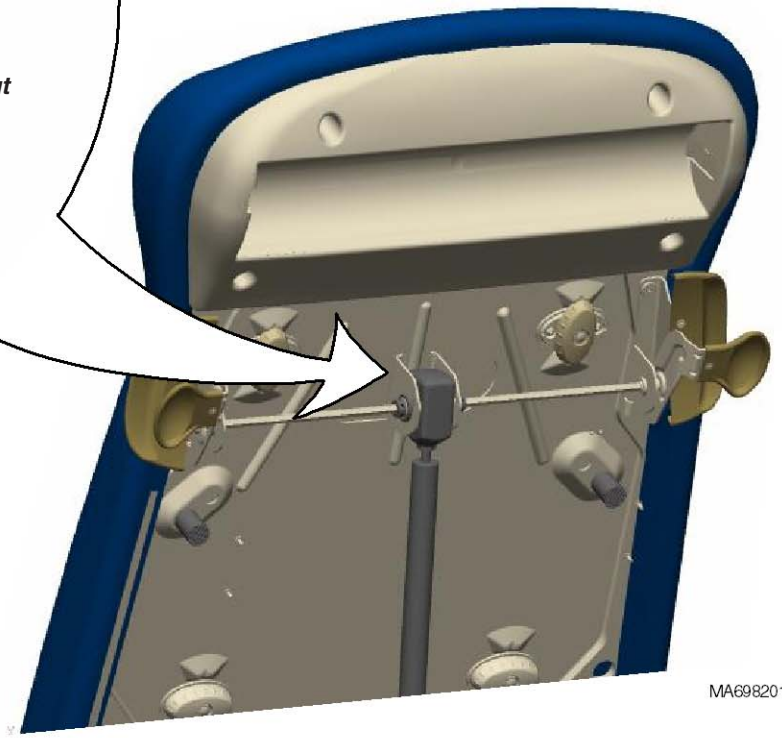
Note
Newer units may have two jam nuts.



If back section drifts up or down...
A. Remove clevis pin from bottom of cylinder. *(Refer to Gas Cyliner Replacement).*
B. Loosen jam nut(s).
C. Unscrew cylinder slightly.
D. Tighten jam nut(s) / replace clevis pin / test.

If back section is 'locked up', or difficult to position...
A. Remove clevis pin from bottom of cylinder. *(Refer to Gas Cyliner Replacement).*
B. Loosen jam nut(s).
C. Screw cylinder in slightly.
D. Tighten jam nut(s) / replace clevis pin / test.

Attention:
If problem persists after performing the appropriate adjustment, replace gas cylinder.



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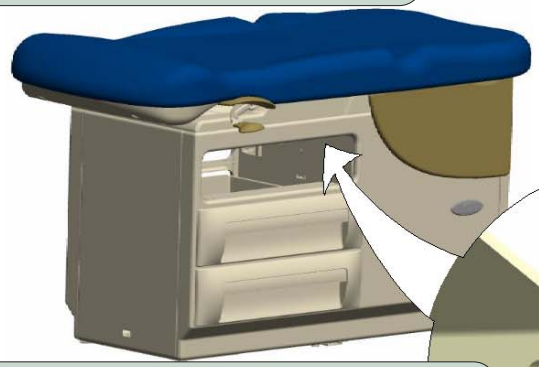
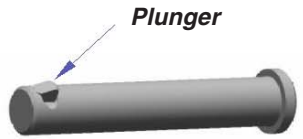
Back Release Mechanism - *continued*

Refer to: **Go To Page:**
Gas Cylinder Adjustment B-2

Gas Cylinder Replacement

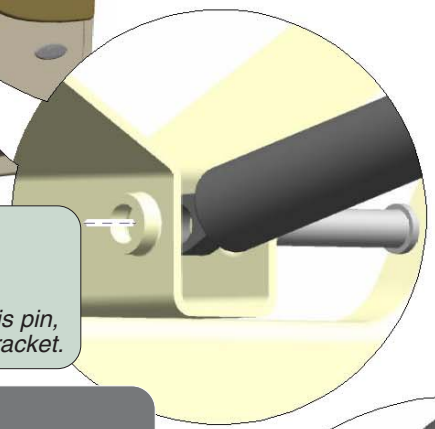
Removal
Step 1: Remove top drawer.
(Refer to: Section C - Drawers)





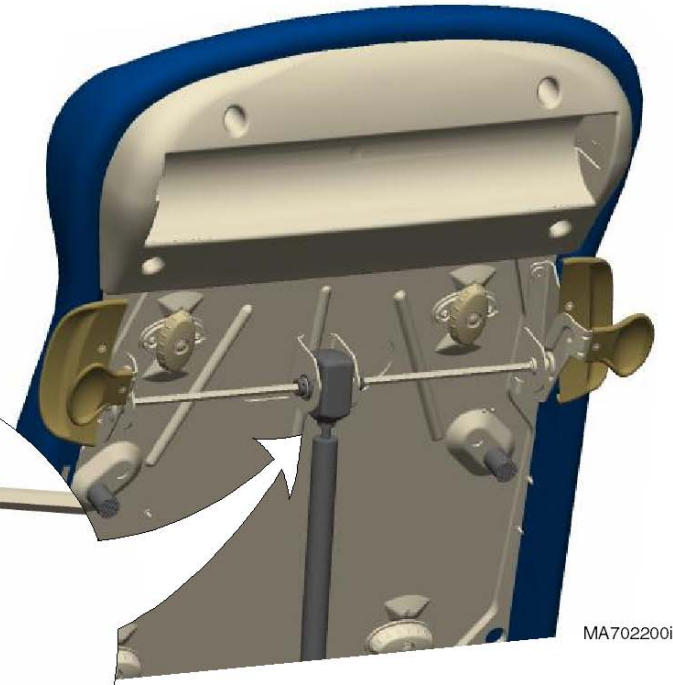
Removal
Step 2: Remove clevis pin.

Note: *Press the plunger on the clevis pin, then push pin thru spring & bracket.*



Installation
Step 2: Install clevis pin.

Installation
Step 3: Perform *Gas Cylinder Adjustment.*
(Refer to: previous page)



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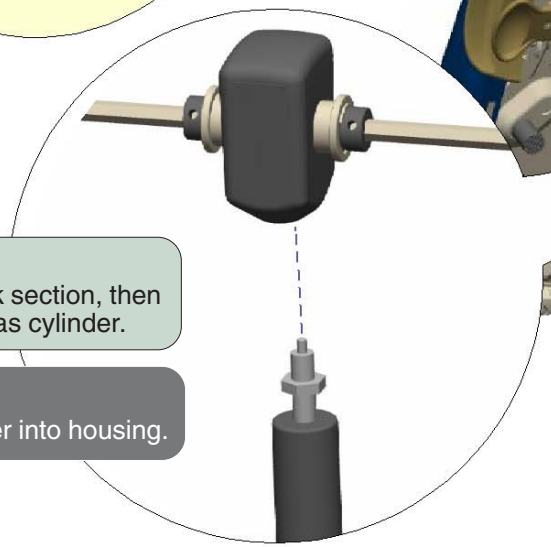
Removal
Step 3: Raise back section, then unscrew gas cylinder.



Installation
Step 1: Thread gas cylinder into housing.

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Testing & Repair

Table Receptacle System

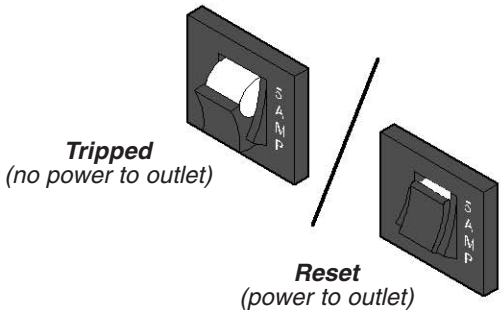
Circuit Breakers

There are two receptacle circuit breakers to protect the system. If the receptacle's maximum load is exceeded, the circuit breakers interrupt power to the receptacle.

Maximum Load *(both outlets combined) ..... 5 amps*

Table Receptacle System — Go To Page:

Circuit Breakers B-4
Supply Voltage Test B-5
Wiring Diagrams D-1
Exploded Views / Part Numbers:
120 V E-19*
230 V E-20



Tripped
(no power to outlet)

Reset
(power to outlet)

To reset circuit breaker(s)...
Push toggle switch inward.

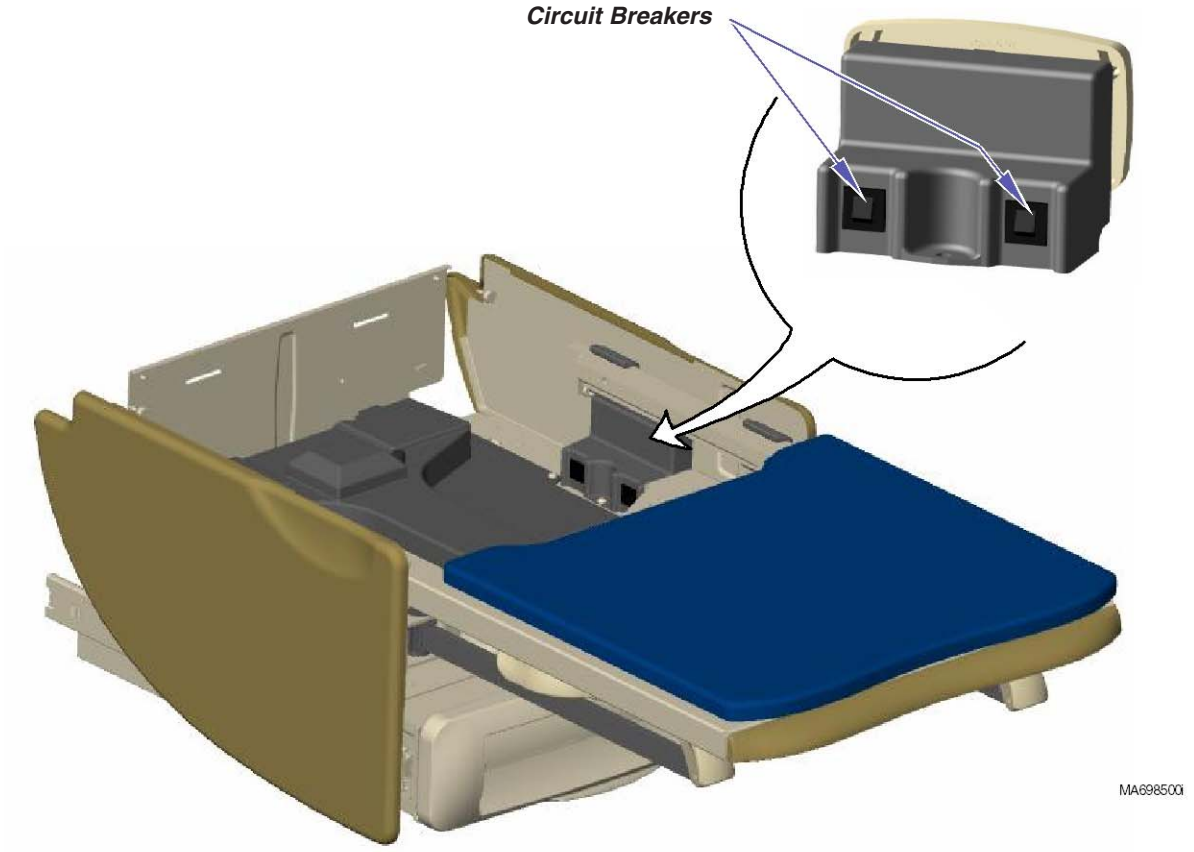


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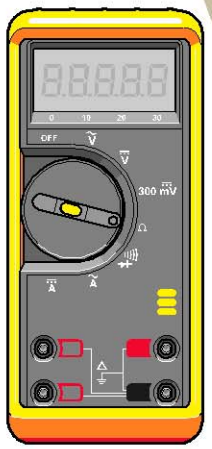
Table Receptacle System - *continued*

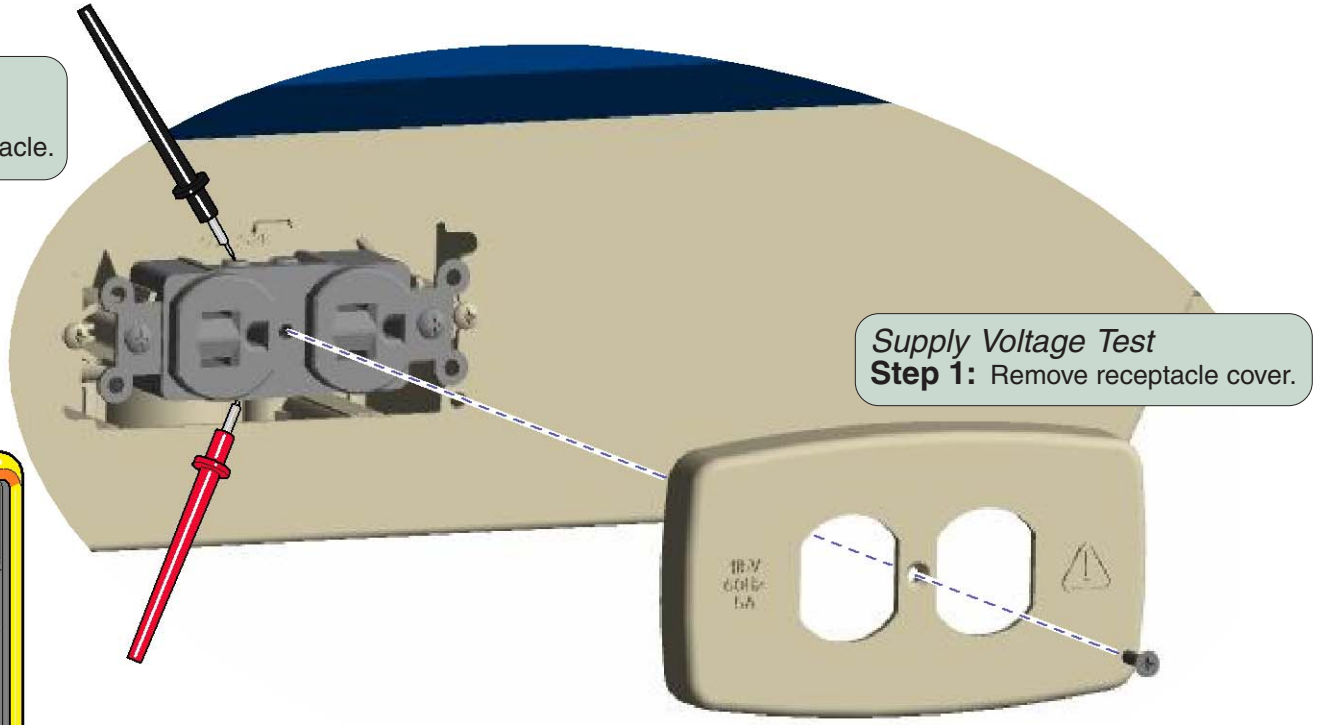
Supply Voltage Test

Refer to: Go To Page:
Wiring Diagrams D-1

Supply Voltage Test
Step 3: Place meter probes on wire connection screws of receptacle.

Supply Voltage Test
Step 2: Set meter to read VAC.





Supply Voltage Test
Step 1: Remove receptacle cover.

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Supply Voltage Test
If reading is approx. 115 / 230 VAC (line voltage)...
Replace receptacle.

If there is no voltage present...
Check all wire connections from receptacle to supply source

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Testing & Repair

Drawer Heater System

Use the table below to determine the required action:

Problem	***Required Action***
Drawer heater does not warm up, ***and*** switch does not illuminate.	Check ***Distr. Board Fuses*** Perform ***Supply Voltage Test***
Drawer heater does not warm up, ***but*** switch does illuminate.	Perform ***Drawer Heater Plate Test***
Drawer heater works properly, ***but*** switch does not illuminate.	Replace ***Drawer Heater Switch***

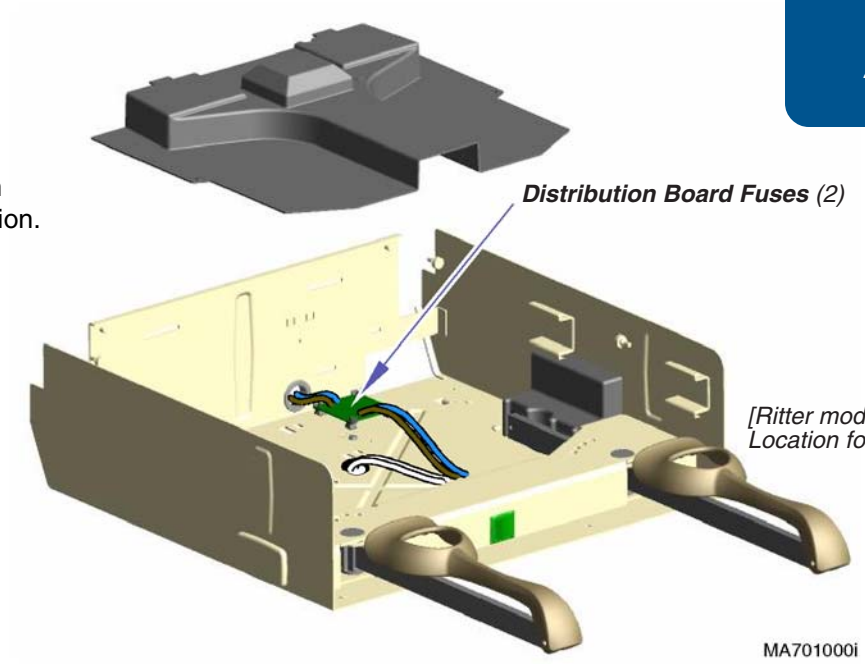
Drawer Heater System — Go To Page:

Distribution Board Fuses B-6
Supply Voltage Test:
204 (Ritter) B-7
604 (Midmark) B-8
Heater Switch Replacement:
204 (Ritter) B-9
604 (Midmark) B-10
Heater Plate Test:
204 (Ritter) B-11
604 (Midmark) B-12
Heater Plate Replacement B-13
Wiring Diagrams D-1
Exploded Views / Part Numbers:
120 V E-22
230 V E-23

Distribution Board Fuses

The power to the drawer heater switch flows thru the two distribution board fuses.

If either of these fuses are faulty, the switch will not illuminate & the heater will not function.



*[Ritter model shown.
Location for Midmark models is the same.]*

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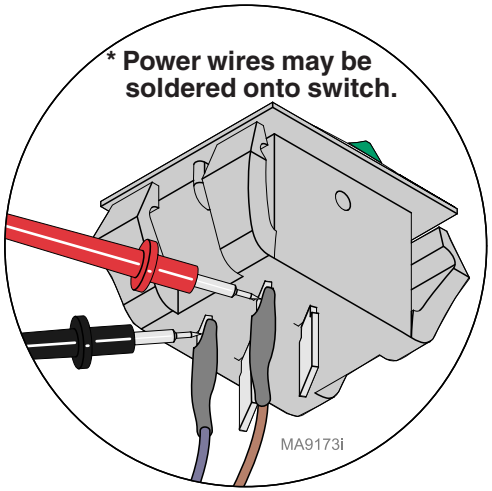
Drawer Heater System - continued

Supply Voltage Test - 204 (Ritter)

Refer to: Go To Page:
Wiring Diagrams D-1

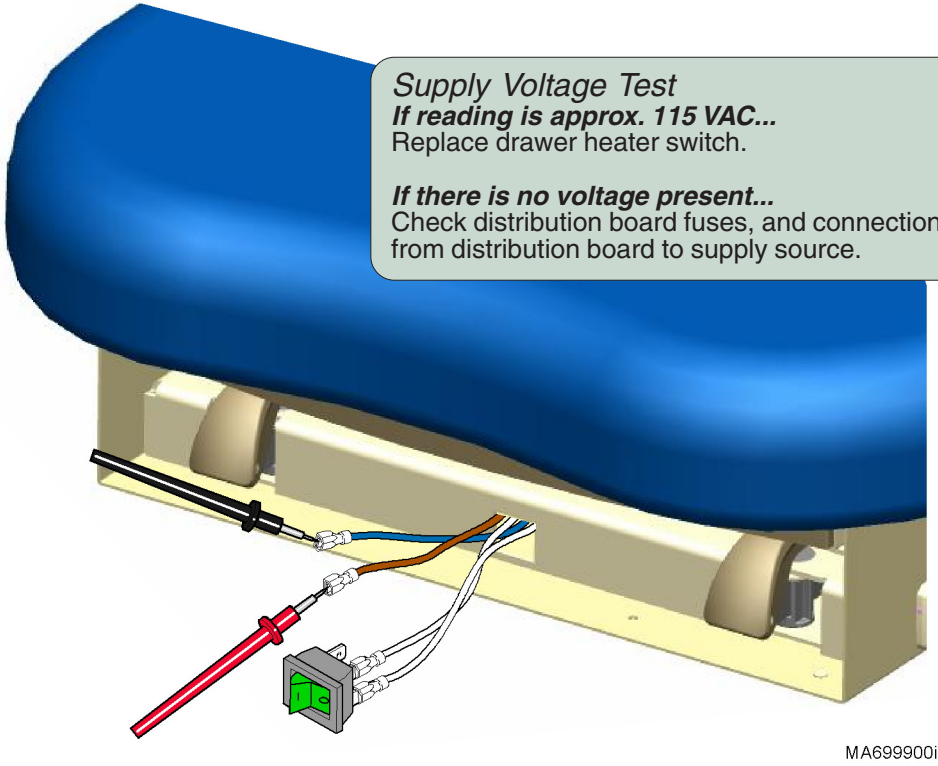
Supply Voltage Test
Step 1: Carefully pry heater switch out of upperwrap.
* Disconnect blue & brown wires.



Supply Voltage Test
Step 2: Set meter to read VAC.
Place probes on blue & brown wires.

Supply Voltage Test
If reading is approx. 115 VAC...
Replace drawer heater switch.

If there is no voltage present...
Check distribution board fuses, and connections from distribution board to supply source.



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Testing & Repair

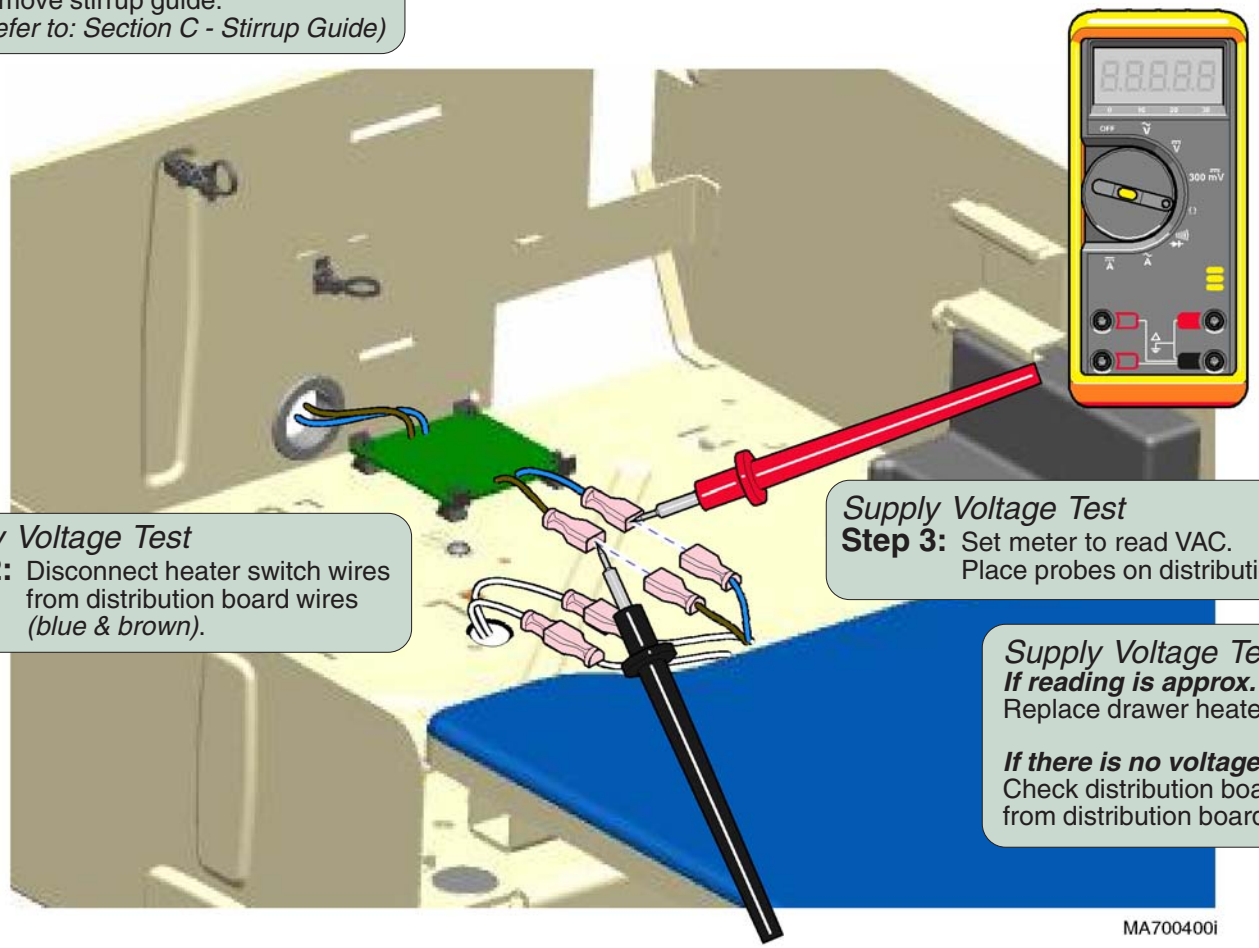
Drawer Heater System - continued

Supply Voltage Test - 604 (Midmark)

Refer to: **Go To Page:**

Heater Switch Replacement B-9
Stirrup Guide Removal C-4
Wiring Diagrams D-1

Supply Voltage Test
Step 1: Remove stirrup guide.
(Refer to: Section C - Stirrup Guide)



MA700400i

Supply Voltage Test
Step 2: Disconnect heater switch wires from distribution board wires *(blue & brown)*.

Supply Voltage Test
Step 3: Set meter to read VAC.
Place probes on distribution board wires *(blue & brown)*.

Supply Voltage Test
If reading is approx. 115 VAC...
Replace drawer heater switch.

If there is no voltage present...
Check distribution board fuses, and connections from distribution board to supply source.

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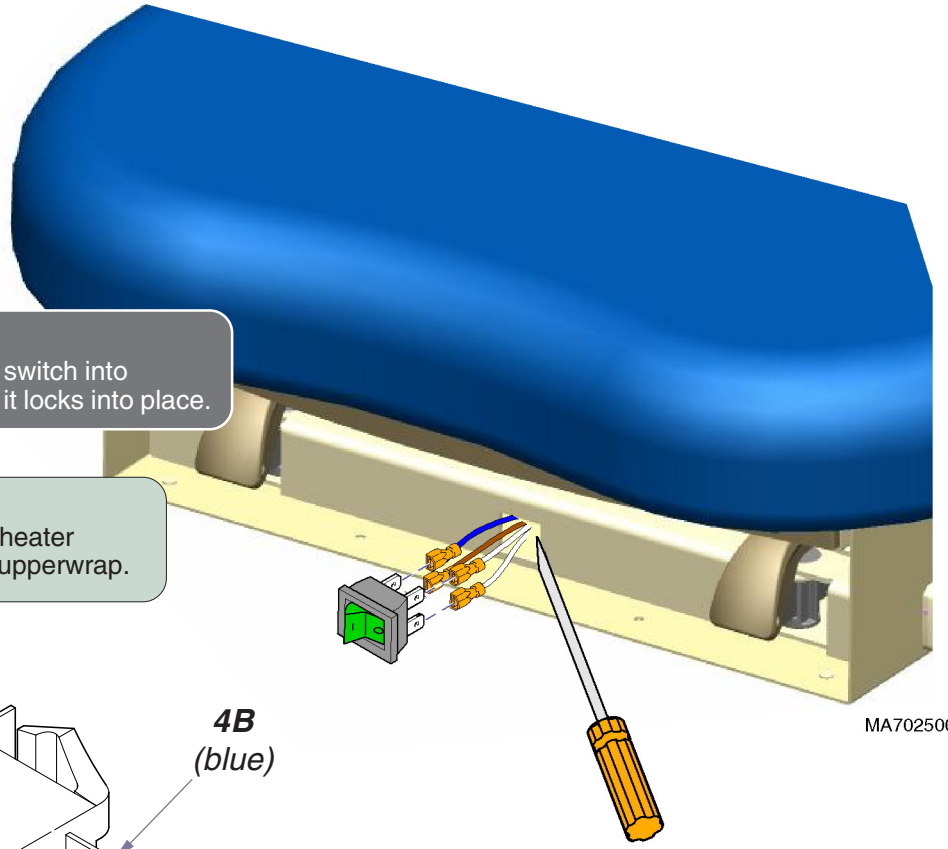
Drawer Heater System - *continued*

Refer to: Go To Page:
Wiring Diagrams D-1

Heater Switch Replacement - 204 (Ritter models)

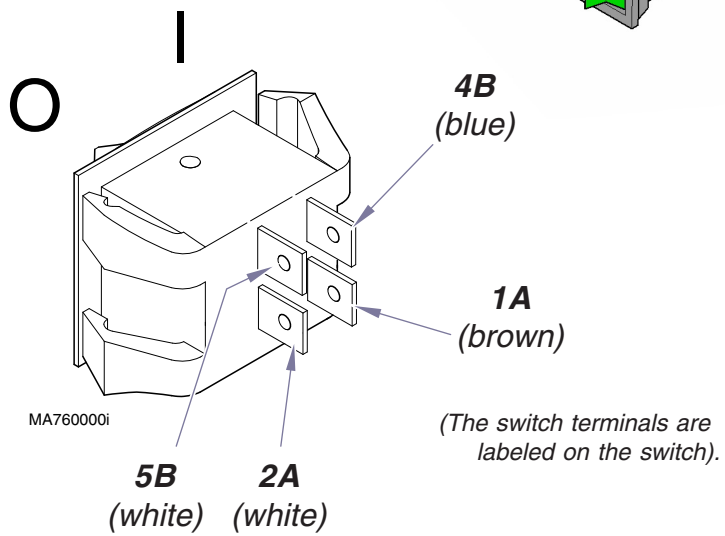


Installation
Step 2: Press heater switch into opening until it locks into place.

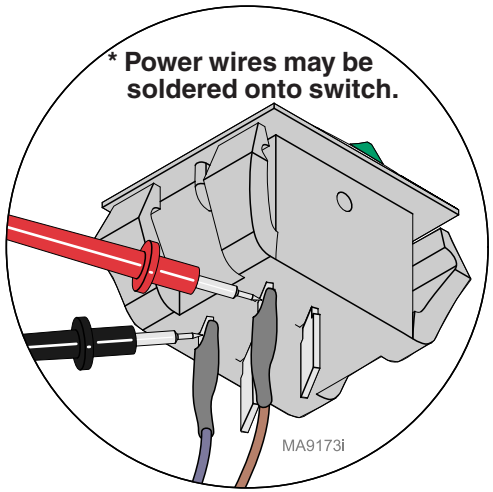
Removal
Step 1: Carefully pry heater switch out of upperwrap.

Installation
Step 1: Connect four wires to proper terminals of heater switch.

Removal
Step 2: Tag & * disconnect four wires from heater switch.



(The switch terminals are labeled on the switch).



Models: 204 *(all)*
Serial Numbers: *All*

Drawer Heater System

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Testing & Repair

Drawer Heater System - continued

Heater Switch Replacement - 604 (Midmark models)

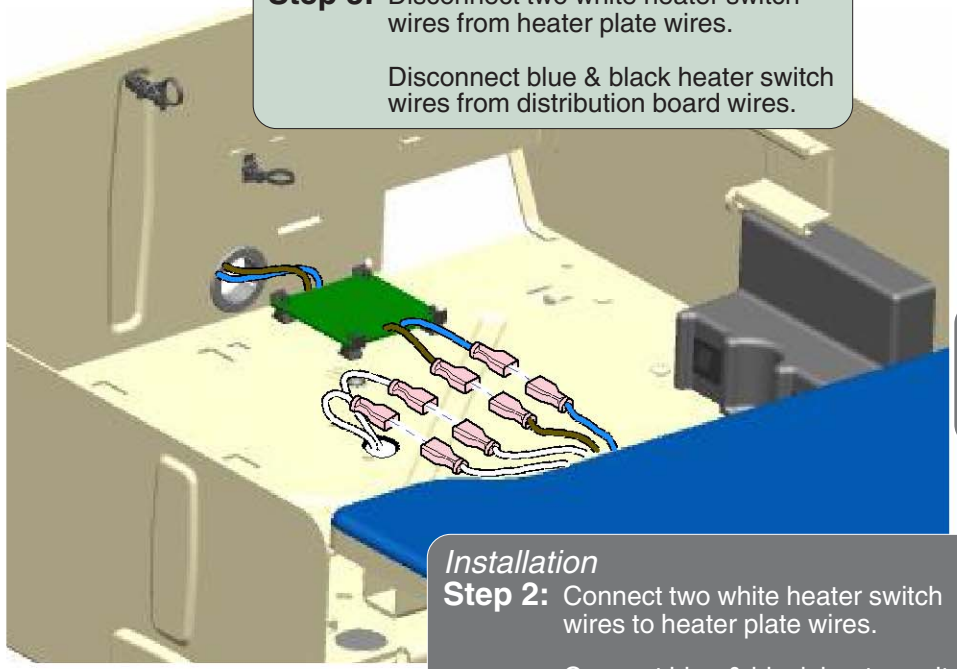
Refer to: **Go To Page:**
Stirrup Guide Removal / Installation C-4
Drawer Removal / Installation C-5
Wiring Diagrams D-1

Removal
Step 1: Remove stirrup guide.
(Refer to: Section C - Stirrup Guide)

Removal
Step 2: Remove top drawer from foot end.
(Refer to: Section C - Drawers)

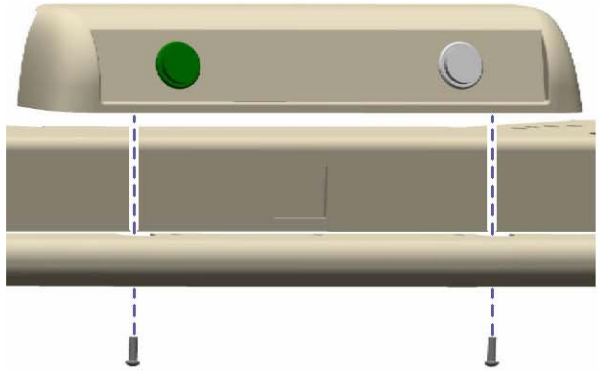
Removal
Step 3: Disconnect two white heater switch wires from heater plate wires.

Disconnect blue & black heater switch wires from distribution board wires.



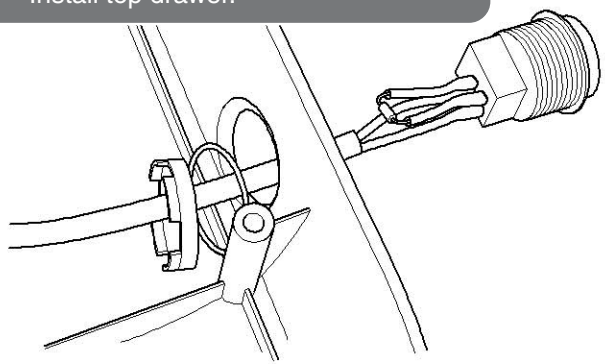
Installation
Step 2: Connect two white heater switch wires to heater plate wires.

Connect blue & black heater switch wires to distribution board wires



Removal
Step 4: Seperate switch housing.
Remove drawer heater switch.

Installation
Step 1: Install drawer heater switch.
Secure switch housing w/ two screws.
Install top drawer.



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Drawer Heater System - *continued*

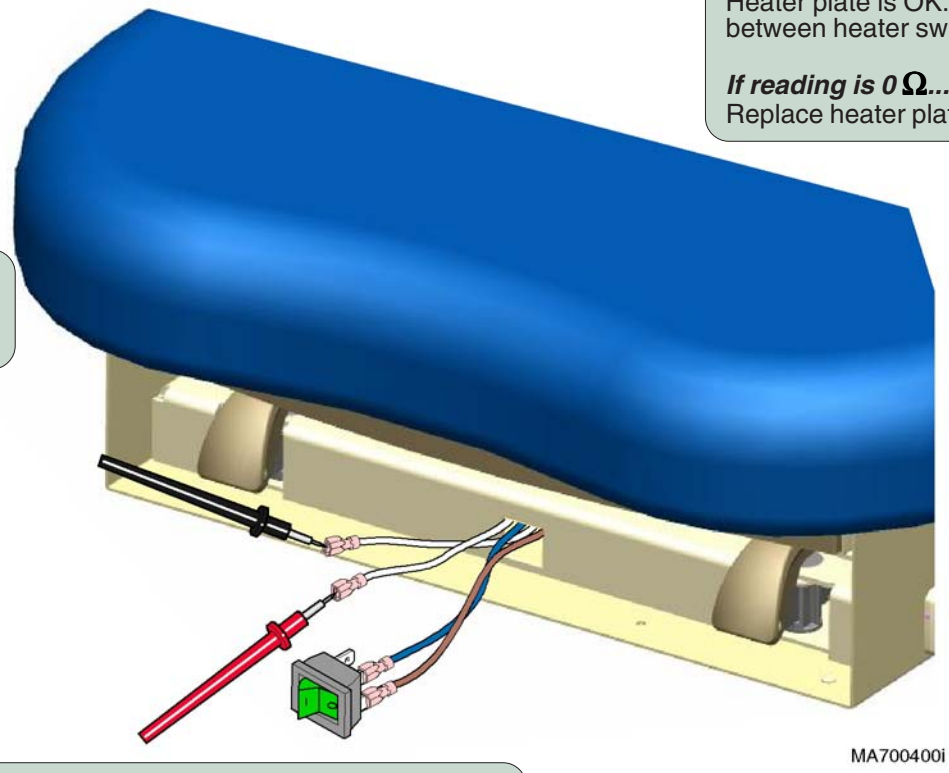
Heater Plate Test - 204 (Ritter)

Refer to: **Go To Page:**
Heater Plate Replacement B-13
Wiring Diagrams D-1

Heater Plate Test
If reading is approximately 360 Ω...
Heater plate is OK. Check connections between heater switch and heater plate.

If reading is 0 Ω...
Replace heater plate.

Heater Plate Test
Step 1: Carefully pry heater switch out of upperwrap. Disconnect two white wires.



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Heater Plate Test
Step 2: Set meter to 2K Ω.
Place probes on two white wires.

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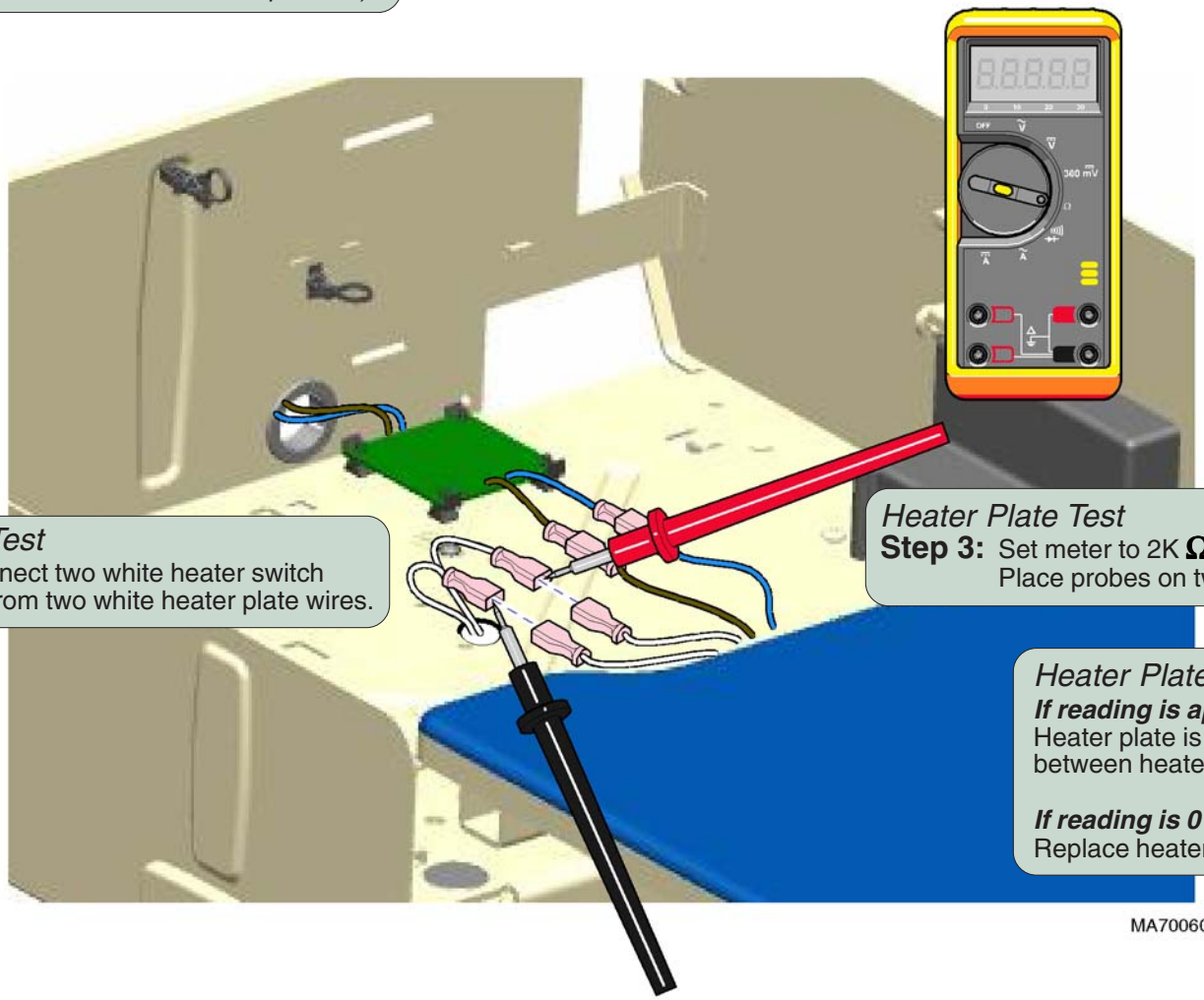
Testing & Repair

Drawer Heater System - continued

Heater Plate Test - 604 (Midmark)

Refer to: Go To Page:
Stirrup Guide Removal C-4

Heater Plate Test
Step 1: Remove stirrup guide.
(Refer to: Section C - Stirrup Guide)



Heater Plate Test
Step 2: Disconnect two white heater switch wires from two white heater plate wires.

Heater Plate Test
Step 3: Set meter to 2K Ω.
Place probes on two white heater plate wires.

Heater Plate Test
If reading is approximately 360 Ω...
Heater plate is OK. Check connections between heater switch and heater plate.

If reading is 0 Ω...
Replace heater plate.

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Drawer Heater System - *continued*

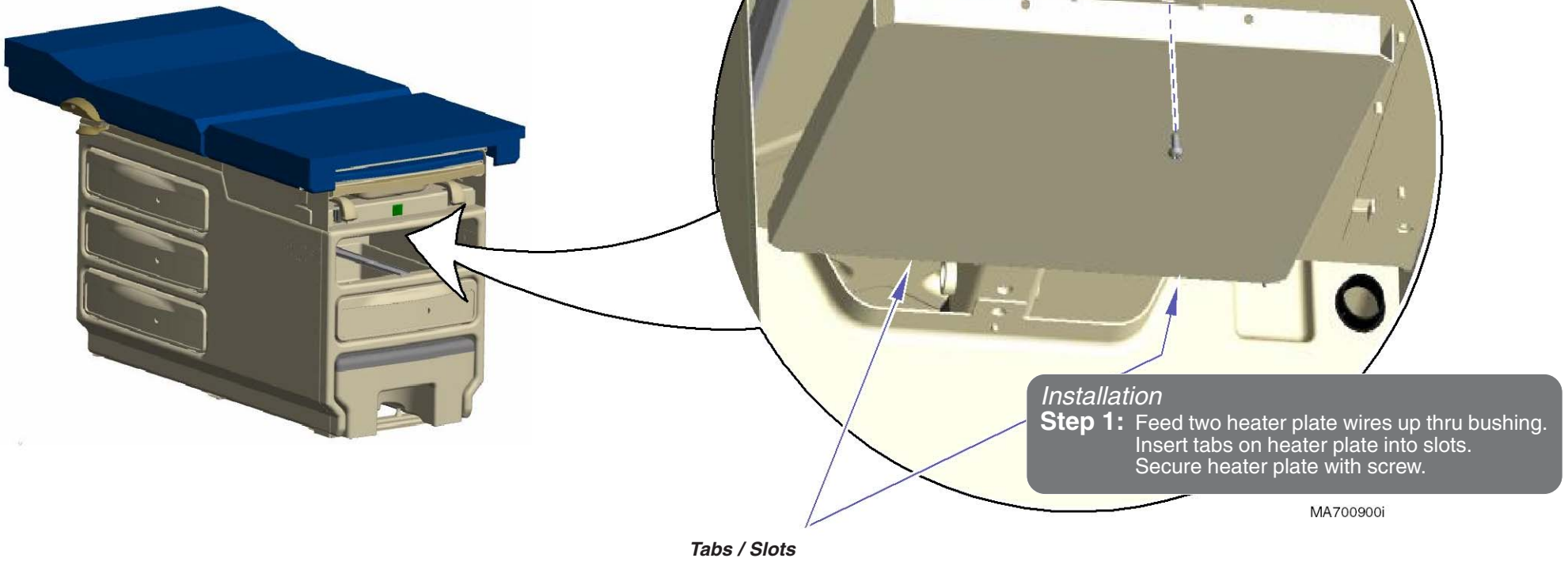
Heater Plate Replacement

Removal
Step 1: Disconnect two white heater plate wires.
(Refer to: Section B - Drawer Heater Plate Test)

Installation
Step 2: Connect two white heater plate wires to drawer heater switch.
(Refer to: Section B - Drawer Heater Plate Test)

Removal
Step 2: Remove top drawer from foot-end.
(Refer to: Section C - Drawers)

Refer to: | **Go To Page:**
Heater Plate Test:
204 (Ritter) B-11
604 (Midmark) B-12
Drawer Removal / Replacement C-5
Wiring Diagrams D-1


Bushing
Removal
Step 3: Remove screw & heater plate.
Installation
Step 1: Feed two heater plate wires up thru bushing.
Insert tabs on heater plate into slots.
Secure heater plate with screw.
MA700900i
Tabs / Slots

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Testing & Repair

Upholstery Heater System

Use the table below to determine the required action:

Problem	*Required Action*
Uph. heater does not warm up, ***and*** switch does not illuminate.	Perform ***Uph. Heater PC Board Test***
Upholstery heater does not warm up, ***but*** switch does illuminate.	Perform ***Upholstery Heater Test***
Upholstery heater works properly, ***but*** switch does not illuminate.	Replace ***Upholstery Heater Switch***

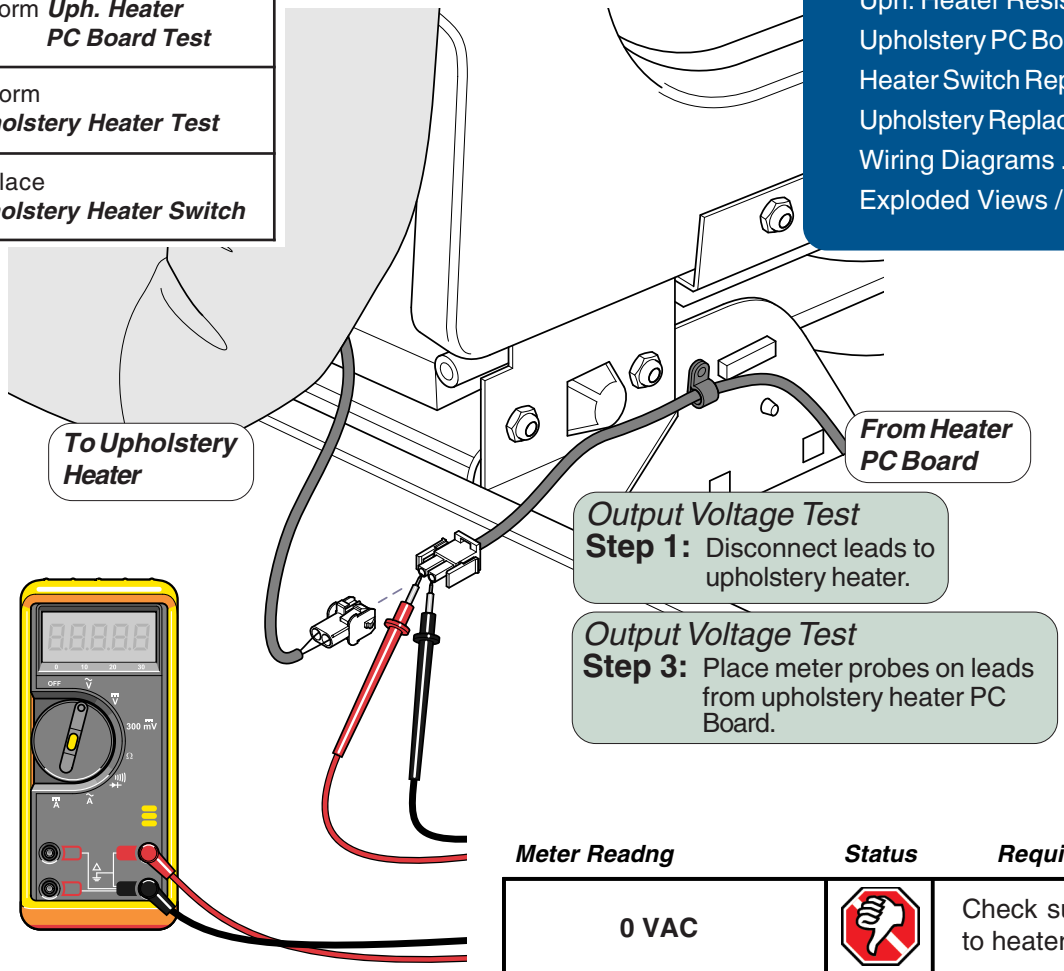
Upholstery Heater System — ***Go To Page:***

Upholstery Heater PC Board Test:
- *Output Voltage Test* B-14
- *Supply Voltage Test* B-15

Uph. Heater Resistance Test B-16
Upholstery PC Board Replacement B-17
Heater Switch Replacement B-18
Upholstery Replacement C-3
Wiring Diagrams D-1
Exploded Views / Part Numbers E-24

Upholstery Heater PC Board Test

(Output Voltage Test)



Output Voltage Test
Step 1: Disconnect leads to upholstery heater.

Output Voltage Test
Step 2: Set meter to VAC.

Output Voltage Test
Step 3: Place meter probes on leads from upholstery heater PC Board.

Output Voltage Test
Step 4: Press Upholstery (Green) Heater switch ON.

Meter Readng	*Status*	*Required Action*
0 VAC		Check supply voltage to heater PC board
14 VAC + /- 3 VAC		Check upholstery heater

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Upholstery Heater System - *continued*

Upholstery Heater PC Board Test

(Supply Voltage Test)

Refer to: **Go To Page:**
Stirrup Guide Removal C-4
Wiring Diagrams D-1

Supply Voltage Test
Step 1: Remove stirrup guide.
(Refer to: Section C - Stirrup Guide)

Note
For clarity, the illustration shows only the wires being tested.

Supply Voltage Test
Step 2: Disconnect blue & brown wires from uph. PC board.

Supply Voltage Test
Step 3: Set meter to read VAC.

Supply Voltage Test
Step 4: Place probes on blue & brown wires.

Supply Voltage Test
If reading is approximately 120 VAC...
Check wire connections & F1 / F2 fuses on Uph. PC board.

If reading is 0 VAC...
Check connections from uph. PC board to supply source.

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Testing & Repair

Upholstery Heater System - *continued*

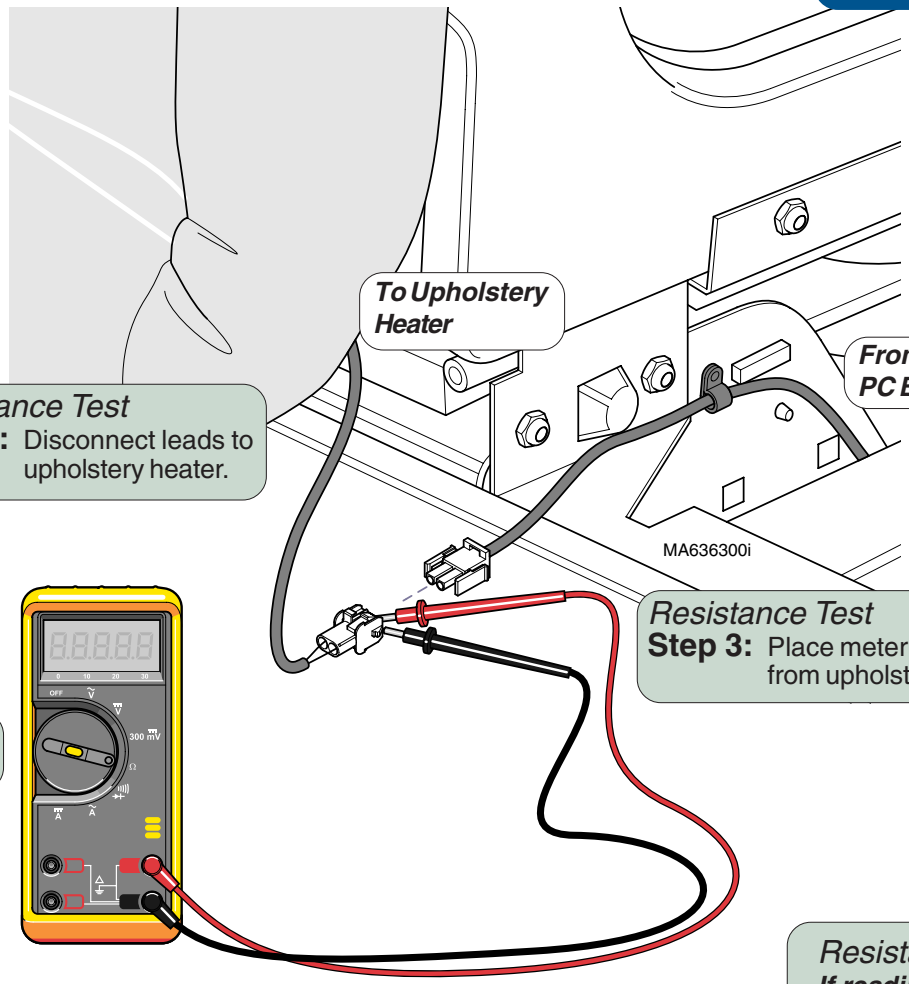
Uph. Heater Resistance Test

Refer to: **Page**

Heater Swtich Replacement B-18

Upholstery Replacement ..... Go To Page:

Exploded View / Parts List E-24



Resistance Test
Step 1: Disconnect leads to upholstery heater.

Resistance Test
Step 2: Set meter to 200 Ω.

Resistance Test
Step 3: Place meter probes on leads from upholstery heater.

Resistance Test
If reading is approximately 0 Ω...
Replace upholstered top.

If reading is approx. 3 - 4 Ω...
Check heater switch, replace switch if necessary.

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Upholstery Heater System - *continued*

Upholstery PC Board Replacement

Refer to: — **Go To Page:**
Stirrup Guide Removal C-4
Wiring Diagrams D-1
Exploded View / Parts List E-24

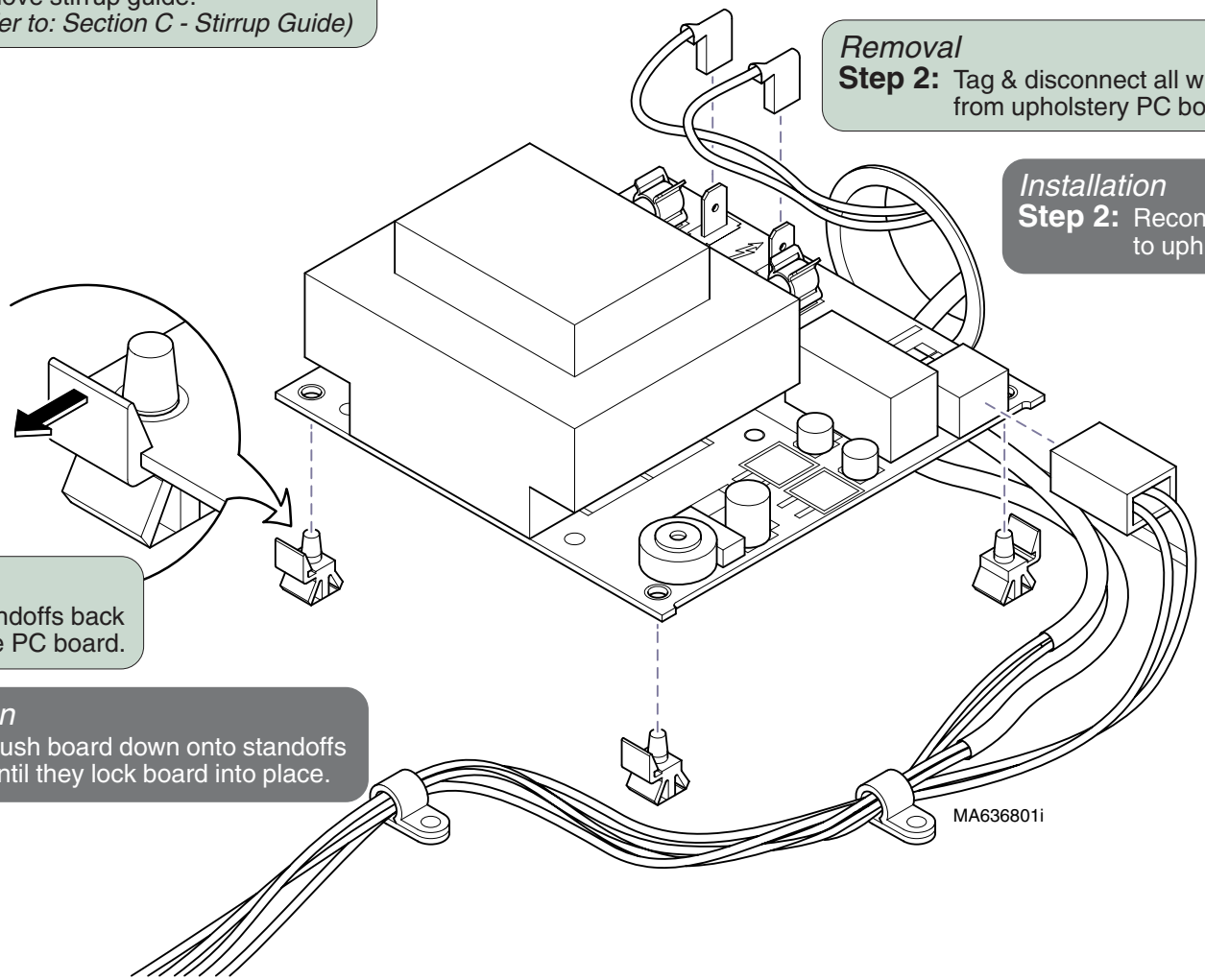
Removal
Step 1: Remove stirrup guide.
(Refer to: Section C - Stirrup Guide)

Removal
Step 2: Tag & disconnect all wiring from upholstery PC board.

Installation
Step 2: Reconnect all wiring to uph. PC board

Removal
Step 3: Push standoffs back & remove PC board.

Installation
Step 1: Push board down onto standoffs until they lock board into place.



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Testing & Repair

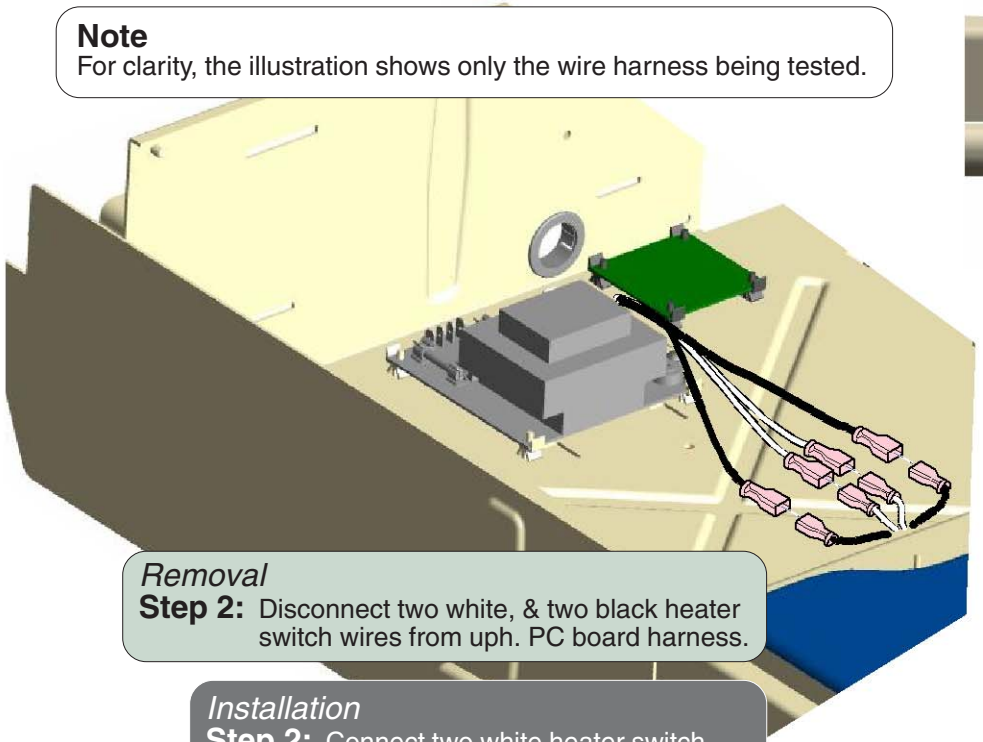
Upholstery Heater System - *continued*

Heater Switch Replacement

Refer to: Go To Page:
Stirrup Guide Removal C-4
Wiring Diagrams D-1
Exploded View / Parts List E-24

Removal
Step 1: Remove stirrup guide.
(Refer to: Section C - Stirrup Guide)

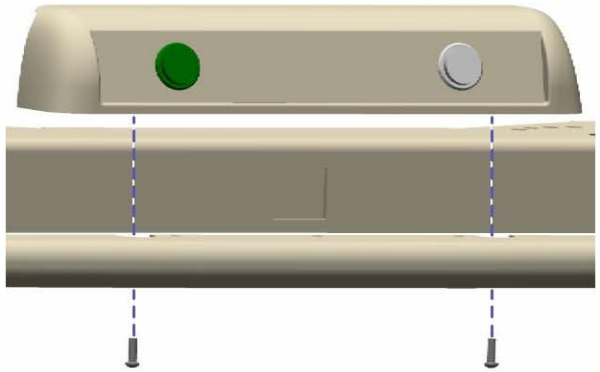
Note
For clarity, the illustration shows only the wire harness being tested.



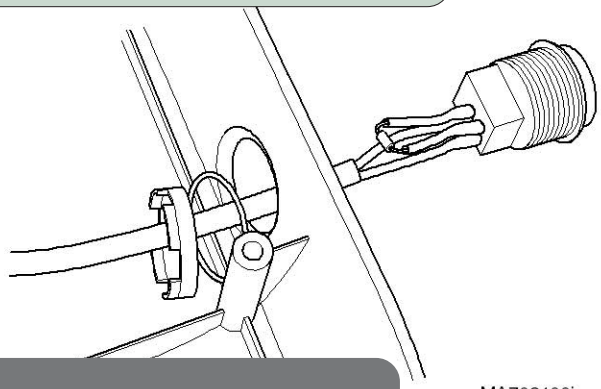
Removal
Step 2: Disconnect two white, & two black heater switch wires from uph. PC board harness.

Installation
Step 2: Connect two white heater switch wires to heater plate wires.

Connect blue & black heater switch wires to distribution board wires



Removal
Step 3: Remove top drawer *(foot-end)*.
Seperate switch housing.
Remove upholstery heater switch.



MA702100i

Installation
Step 1: Install drawer heater switch.
Secure switch housing w/ two screws.
Install top drawer.

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Testing & Repair

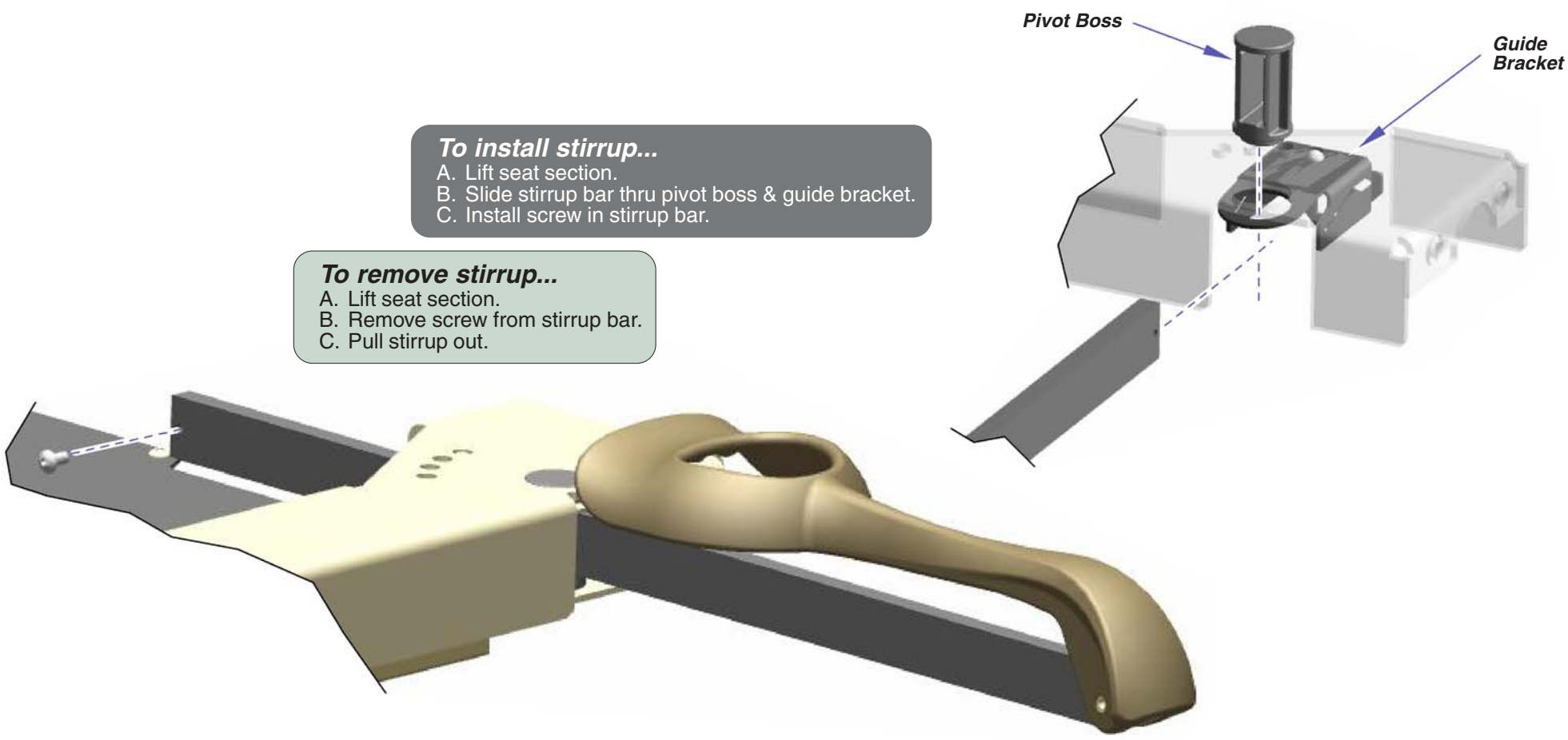
Stirrups

Replacement

Stirrups — Go To Page:
Replacement B-20
Exploded Views / Part Numbers E-18

To install stirrup...
A. Lift seat section.
B. Slide stirrup bar thru pivot boss & guide bracket.
C. Install screw in stirrup bar.

To remove stirrup...
A. Lift seat section.
B. Remove screw from stirrup bar.
C. Pull stirrup out.



MA700800i

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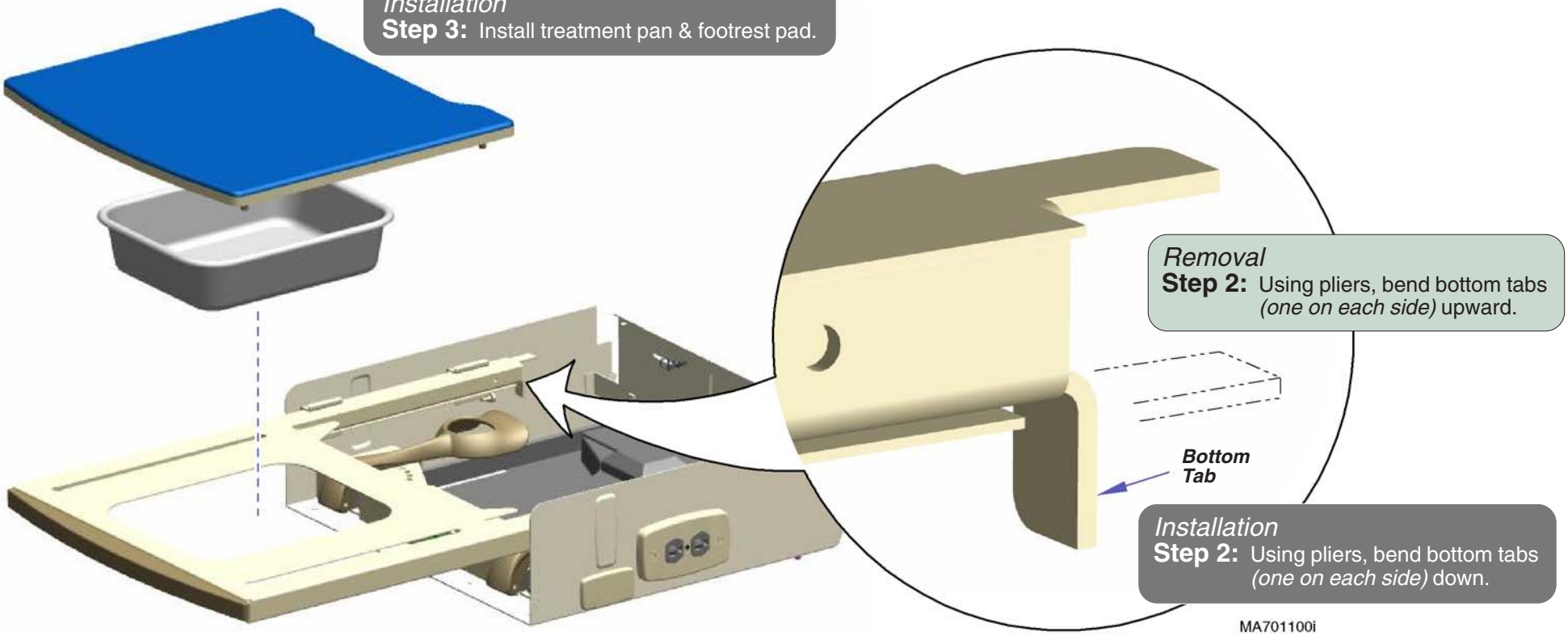
Footrest Extension

Replacement

Footrest Extension — Go To Page:
Replacement B-21
Exploded Views / Part Numbers:
204 (Ritter) E-10
604 (Midmark) E-11

Removal
Step 1: Remove footrest pad & treatment pan.

Installation
Step 3: Install treatment pan & footrest pad.



Removal
Step 2: Using pliers, bend bottom tabs *(one on each side)* upward.

Installation
Step 2: Using pliers, bend bottom tabs *(one on each side)* down.

Removal
Step 3: Pull footrest extension out of upperwrap.

Installation
Step 1: Slide footrest extension into upperwrap.

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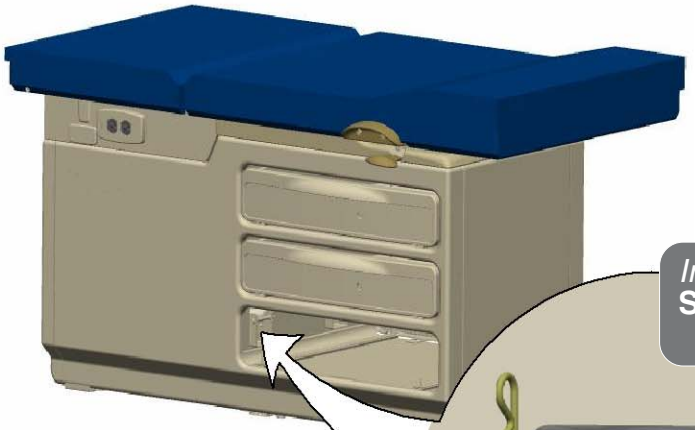
Testing & Repair

Foot Step

Replacement - 204 (Ritter models)

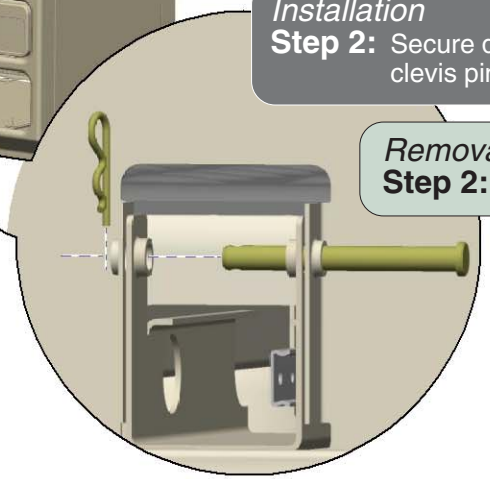
Foot Step — Go To Page:
Replacement:
204 (Ritter) B-22
604 (Midmark) B-23
Drawer Removal / Installation C-5
Exploded Views / Part Numbers E-17

Removal
Models w/Pass-Thru Drawers
Step 1: Push bottom side drawer inward to access clevis pin. Repeat from opposite side of table.



Installation
Step 2: Secure drawer with two clevis pins & cotter rings.

Removal
Step 2: Remove two clevis pins.



Removal
Models w/Bulk Storage
Step 1: Remove access panel.

Removal
Step 3: Remove foot step.

Installation
Step 1: Slide foot step into table.

MA702600i

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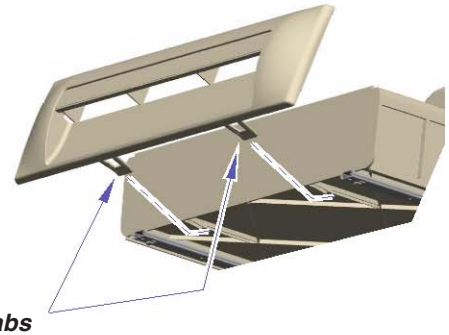
Foot Step - *continued*

Replacement - 604 (Midmark models)

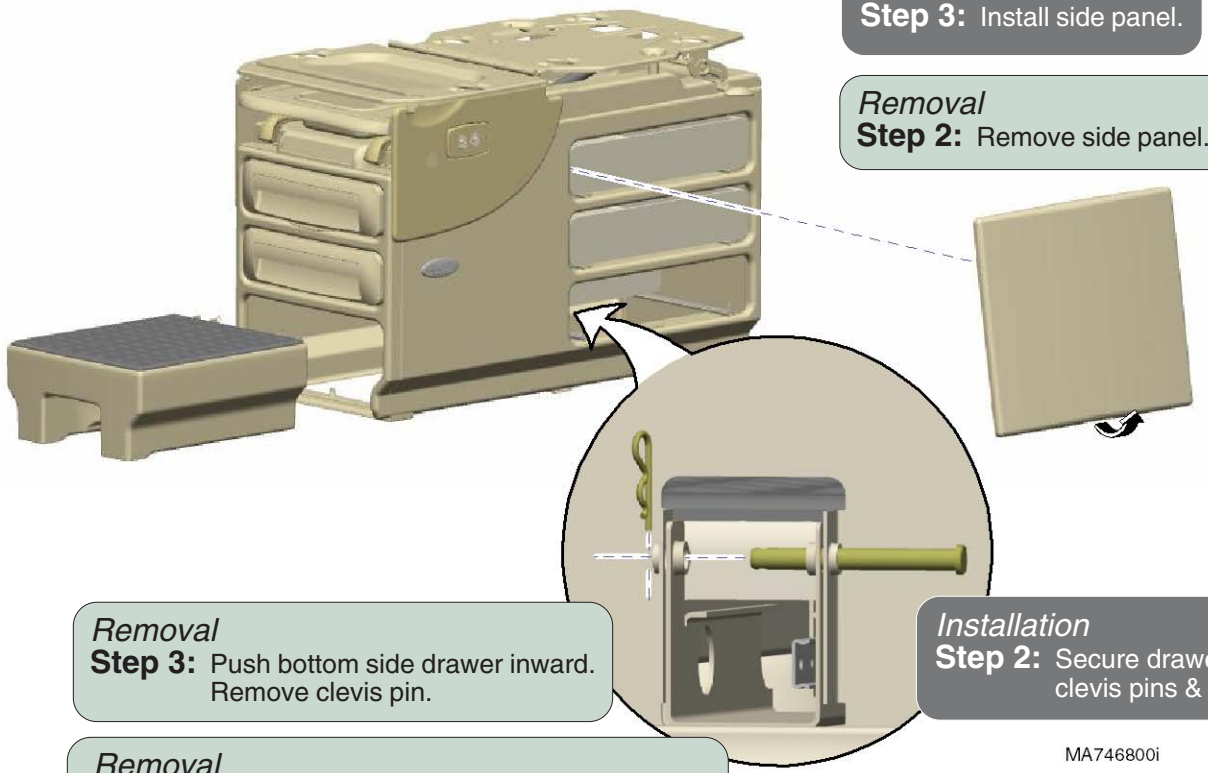
Removal
Step 1: Remove drawer front from bottom side drawer.
(Pull tabs down to release)



Installation
Step 4: Install drawer front.

Installation
Step 3: Install side panel.

Removal
Step 2: Remove side panel.



Installation
Step 1: Slide foot step into table.

Removal
Step 3: Push bottom side drawer inward.
Remove clevis pin.

Installation
Step 2: Secure drawer with two clevis pins & cotter rings.

Removal
Step 4: Repeat Step 4 from opposite side of table.
Remove foot step.

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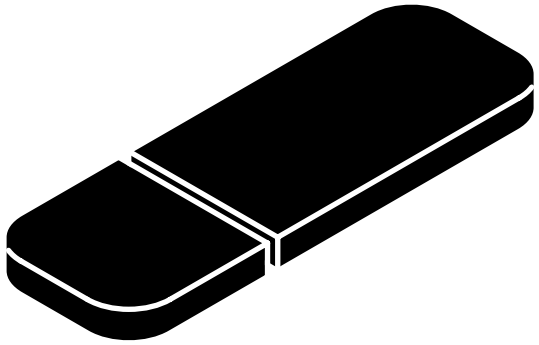
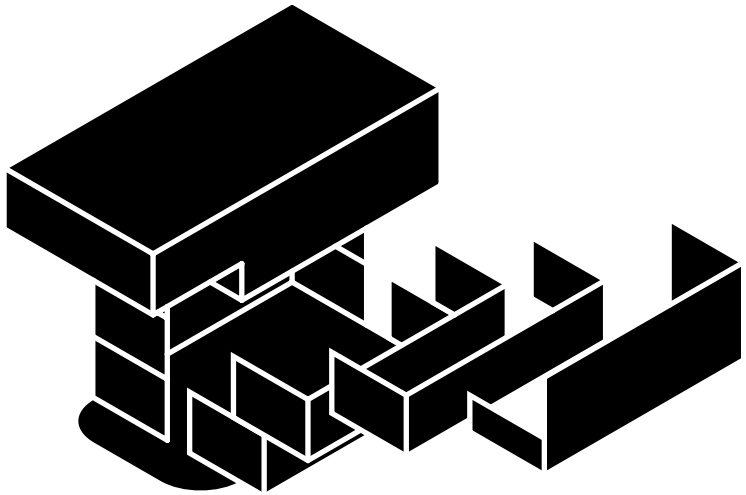
Section C

Access Procedures





Removing & Installing: Go To Page:

Upholstery:
- *204 (Ritter)* C-2
- *604 (Midmark)* C-3

Stirrup Guide C-4

Drawers:
- *204 (Ritter)* C-5
- *604 (Midmark)* C-6
- Color Insert Replacement C-7
- Reversing Drawers *(604 only)* C-8

Click on the Go To Page button and enter the desired page number.

(Note: Letters are case sensitve ex. A-2, not a-2)

Access Procedures

Upholstery

Removal / Installation - 204 (Ritter)

Refer To: Go To Page:

Exploded Views / Part Numbers:

Soft Touch E-5
Seamless E-6

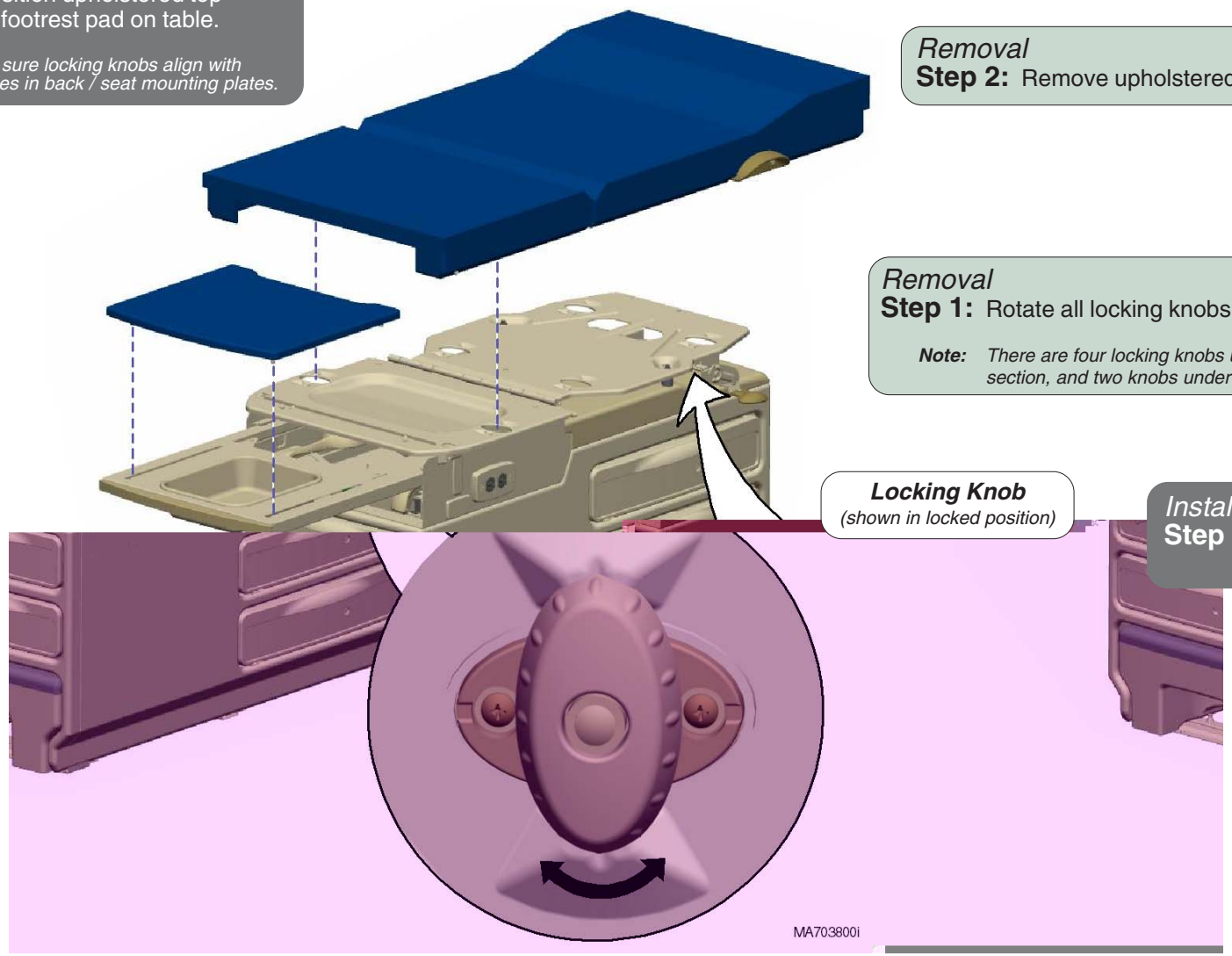
Installation
Step 1: Position upholstered top & footrest pad on table.

Note: *Be sure locking knobs align with holes in back / seat mounting plates.*

Removal
Step 2: Remove upholstered top & footrest pad.

Removal
Step 1: Rotate all locking knobs to unlocked position.

Note: *There are four locking knobs under back section, and two knobs under seat section.*



Locking Knob
(shown in locked position)

Installation
Step 2: Rotate locking knobs to locked position.

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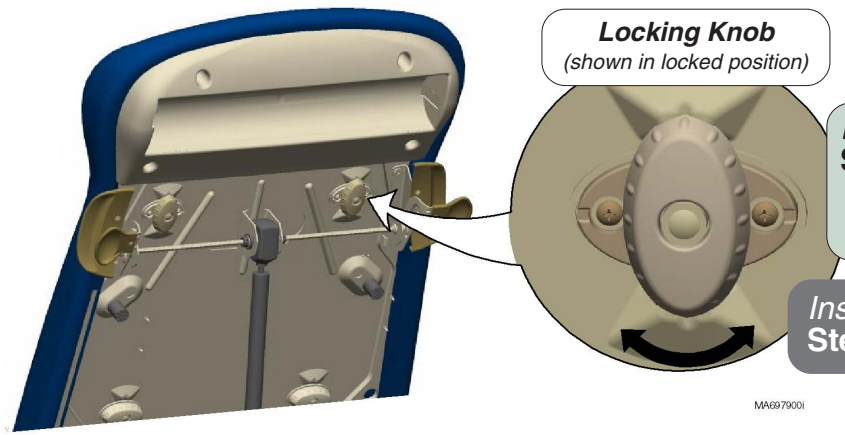
Access Procedures

Upholstery

Removal / Installation - 604 (Midmark)

Refer To: **Go To Page:**
Exploded Views / Part Numbers:
Premium E-7
Ultra-Premium E-8

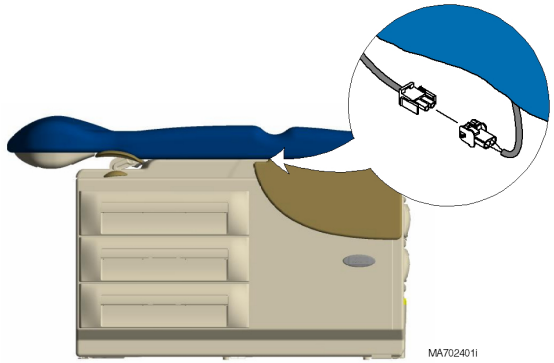


Removal
Step 1: Rotate all locking knobs to unlocked position.

Note: *There are four locking knobs under back section, and two knobs under seat section.*

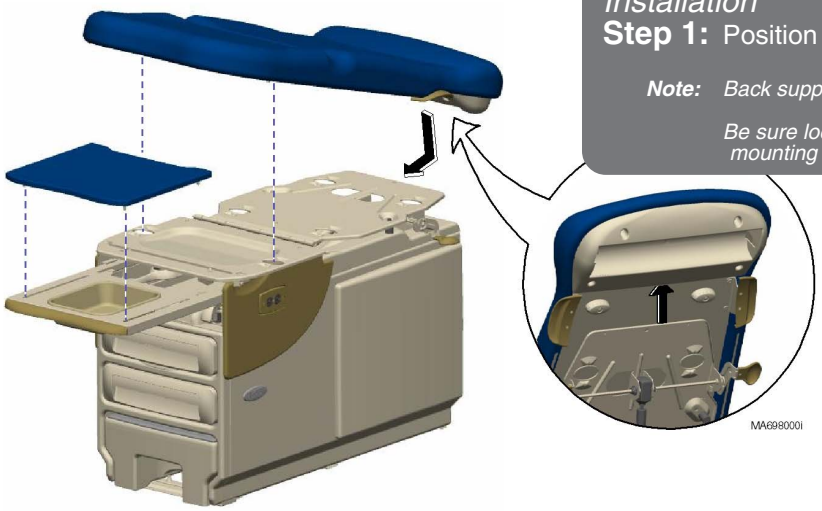
Installation
Step 3: Rotate locking knobs to locked position.

Step 2 applies only to models with optional upholstery heater.



Removal
Step 3: Remove upholstered top & footrest pad.

Note: *Slide upholstery up to remove from back support plate.*



Installation
Step 1: Position upholstered top & footrest pad on table.

Note: *Back support plate must slide under paper roll holder.*

Be sure locking knobs align with holes in back / seat mounting plates.

Removal
Step 2: Disconnect upholstery heater harness.

Installation

Equipment Alert
Be sure harness is not pinched between upholstery & upperwrap.

Step 2: Connect upholstery heater harness.

Models: ***604 (all)***
Serial Numbers: *All*

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Access Procedures

Stirrup Guide

Removal / Installation

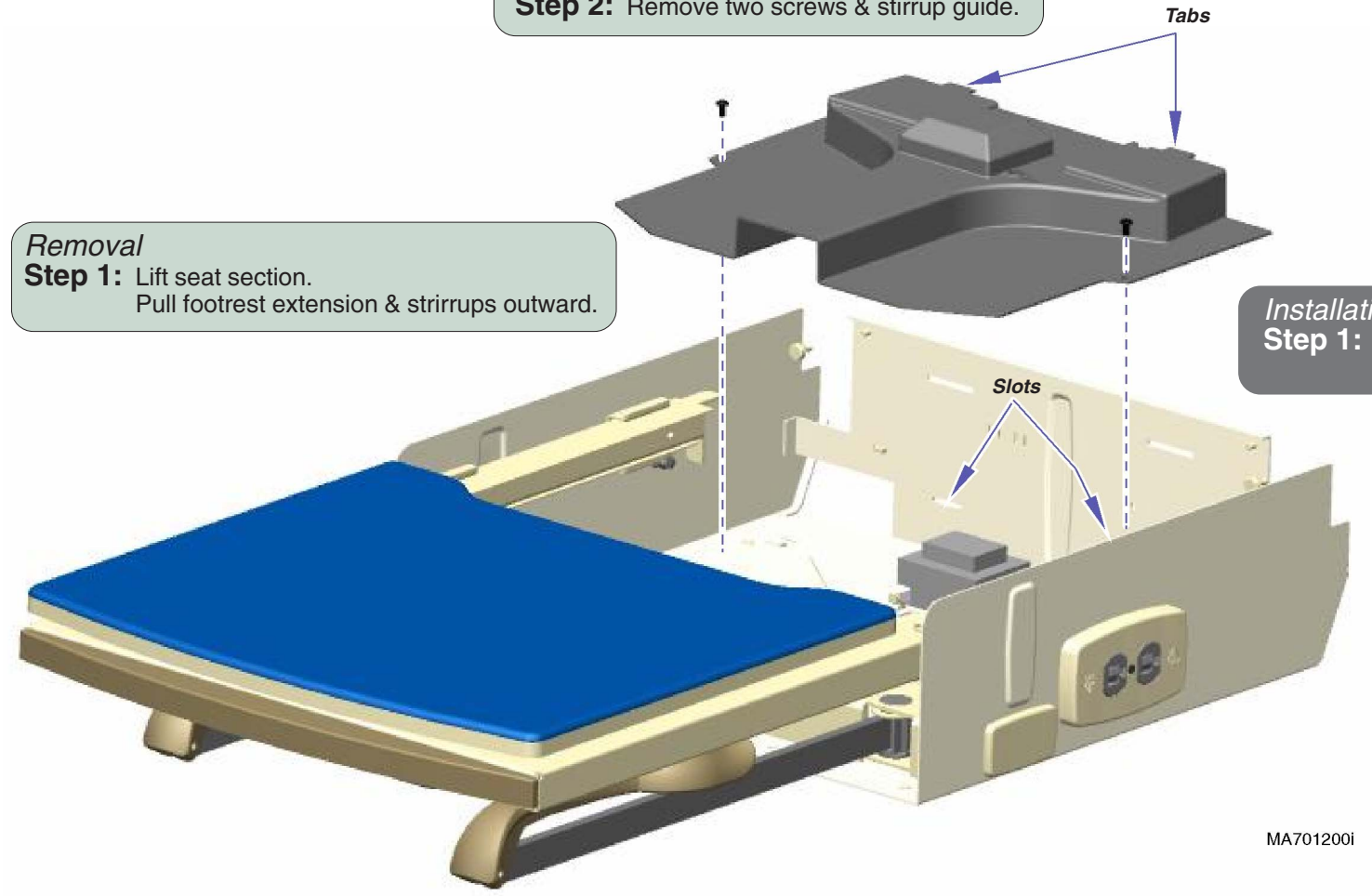
Refer To: Go To Page:
Exploded Views / Part Numbers E-18

Caution
Unplug power cord before removing stirrup guide.

Removal
Step 2: Remove two screws & stirrup guide.

Removal
Step 1: Lift seat section.
Pull footrest extension & strirrups outward.

Installation
Step 1: Insert stirrup guide tabs into slots.
Secure stirrup guide w/ two screws.



Stirrup Guide

Models: ***All***
Serial Numbers: *All*

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Access Procedures

Drawers

Removal / Installation - 204 (Ritter)

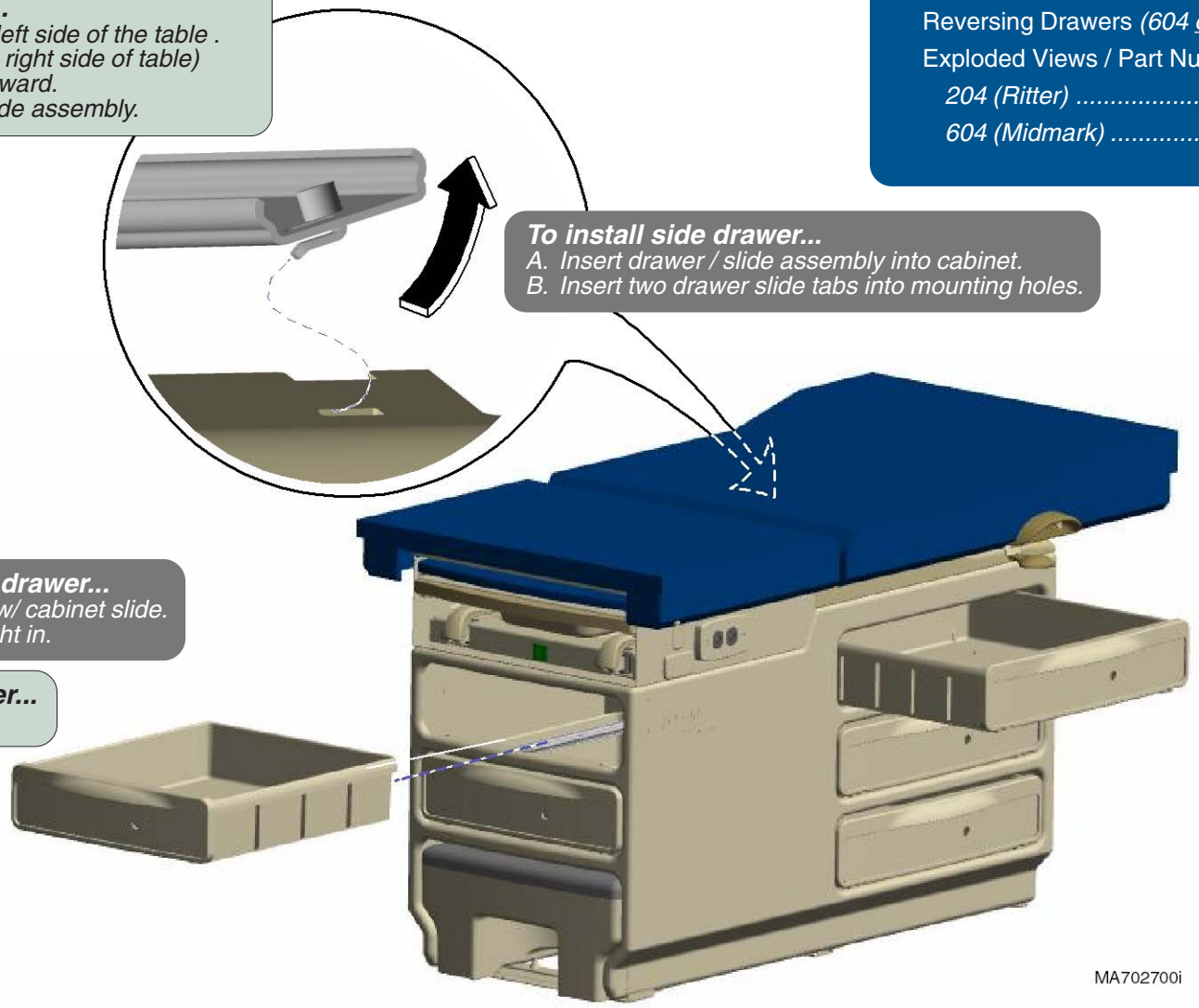
Drawers — Go To Page:
Removal / Installation:
204 (Ritter) C-5
604 (Midmark) C-6
Color Insert Replacement C-7
Reversing Drawers *(604 only)* C-8
Exploded Views / Part Numbers:
204 (Ritter) E-14
604 (Midmark) E-15

To remove side drawer...
A. Pull drawer out from the left side of the table .
B. Grab drawer slides (from right side of table) and twist while lifting upward.
C. Remove side drawer / slide assembly.

To install side drawer...
A. Insert drawer / slide assembly into cabinet.
B. Insert two drawer slide tabs into mounting holes.

To install foot end drawer...
A. Align drawer slide w/ cabinet slide.
B. Push drawer straight in.

To remove foot end drawer...
Pull drawer straight out.



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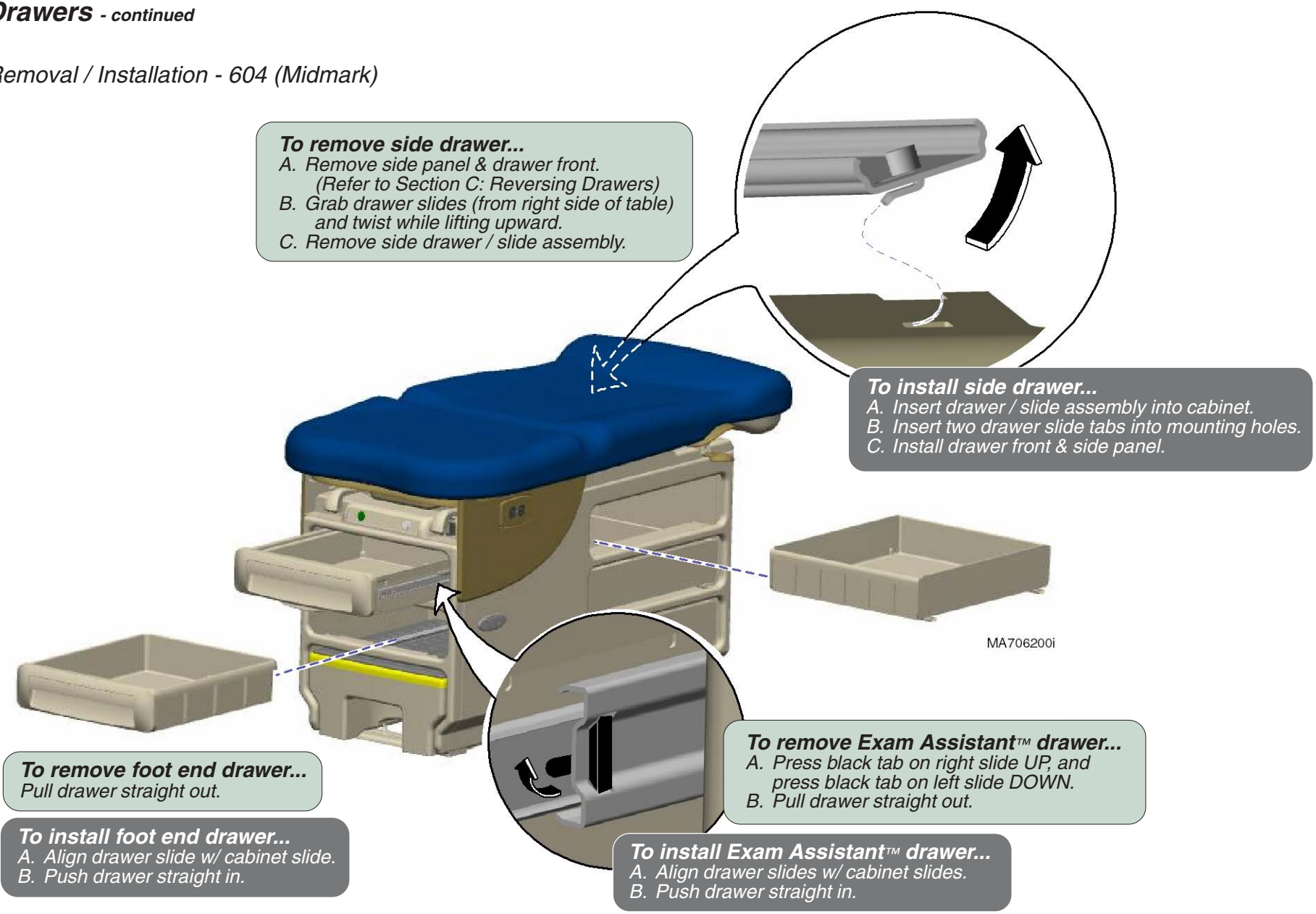
Access Procedures

Drawers - *continued*

Removal / Installation - 604 (Midmark)

To remove side drawer...
A. Remove side panel & drawer front.
(Refer to Section C: Reversing Drawers)
B. Grab drawer slides (from right side of table) and twist while lifting upward.
C. Remove side drawer / slide assembly.



To install side drawer...
A. Insert drawer / slide assembly into cabinet.
B. Insert two drawer slide tabs into mounting holes.
C. Install drawer front & side panel.

To remove foot end drawer...
Pull drawer straight out.

To install foot end drawer...
A. Align drawer slide w/ cabinet slide.
B. Push drawer straight in.

To remove Exam Assistant™ drawer...
A. Press black tab on right slide UP, and press black tab on left slide DOWN.
B. Pull drawer straight out.

To install Exam Assistant™ drawer...
A. Align drawer slides w/ cabinet slides.
B. Push drawer straight in.

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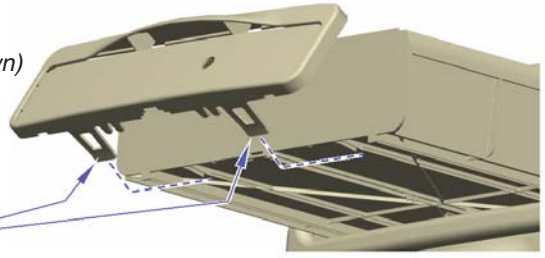
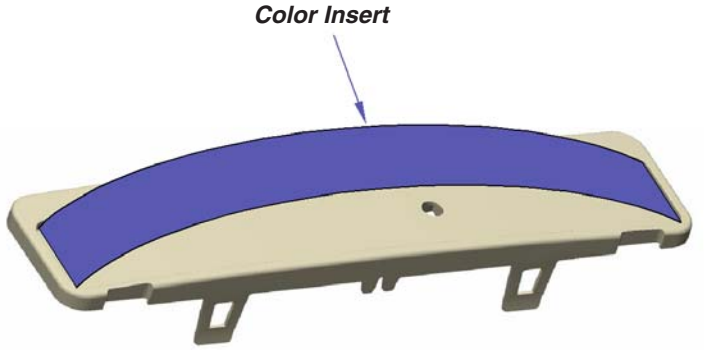
Drawers - continued

Color Insert Replacement

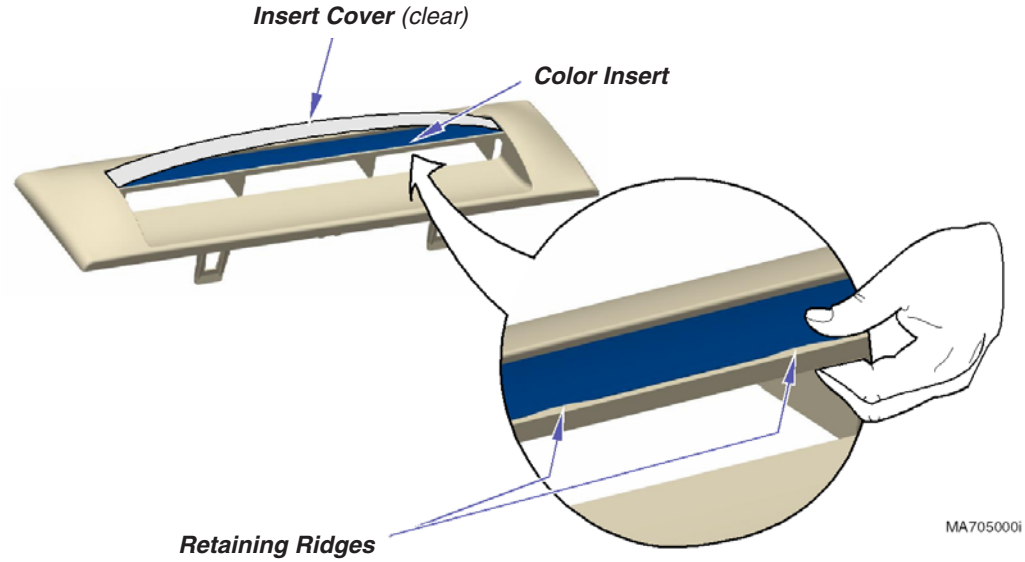
To remove Ritter / Midmark drawer inserts...
A. Remove drawer front. (Pull tabs down to release)
B. Push insert out thru hole in back.

(Ritter drawer shown)





To install Ritter drawer inserts...
A. Remove drawer front. (Pull tabs down to release)
B. Install color insert. (Insert ends one at a time)



To install Midmark drawer inserts...
A. Remove drawer front. (Pull tabs down to release)
B. Remove clear insert cover.
C. Position color insert.
D. Replace insert cover. (Insert ends into slots one at a time).

Note: To lock clear insert cover in place, pinch firmly until cover snaps under two retaining ridges.

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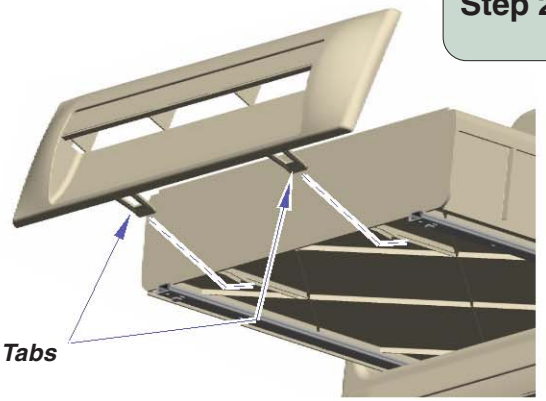
Access Procedures

Drawers - *continued*

Reversing Drawers - 604 (Midmark)

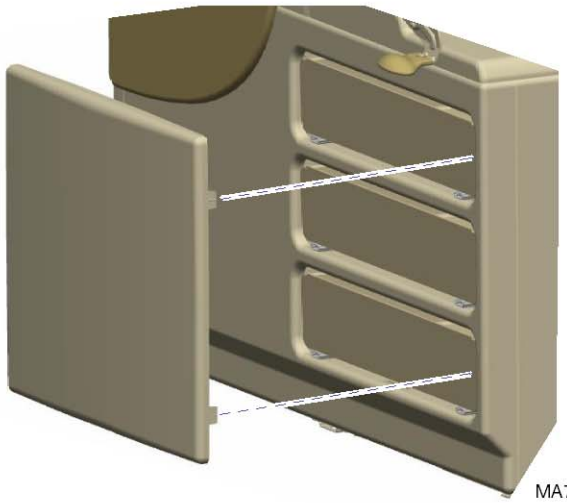
Step 1: Pull side panel out from the bottom.

Step 2: Remove drawer fronts.
(Pull tabs down to release)



Step 3: Install drawer fronts on opposite side of table.

Step 4: Install side panel on opposite side of table.
(Align panel, then push straight in)



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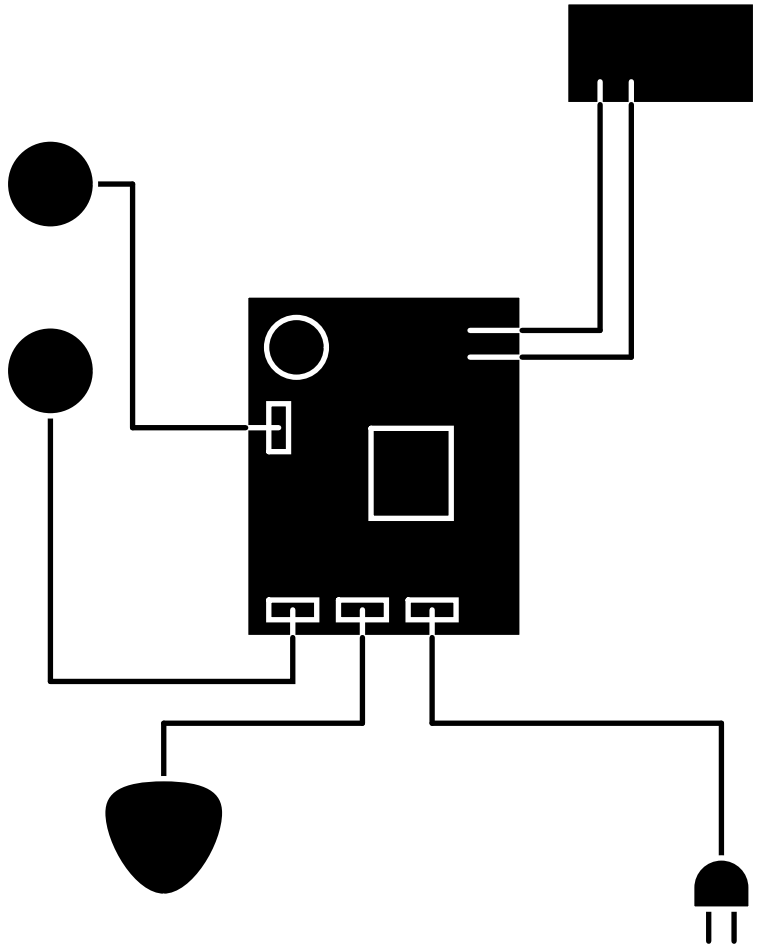
Section D

Wiring Diagrams



Model — Go To Page:

204:
- -001 & -003 ..... D-2
- -002 & -004 ..... D-3
- -006 ..... D-6
- -007 ..... D-7

604:
- -001 ..... D-2
- -002 ..... D-4
- -003 ..... D-5
- -005 ..... D-6
- -006 ..... D-8

Click on the Go To Page button and enter the desired page number.

(Note: Letters are case sensitve ex. A-2, not a-2)

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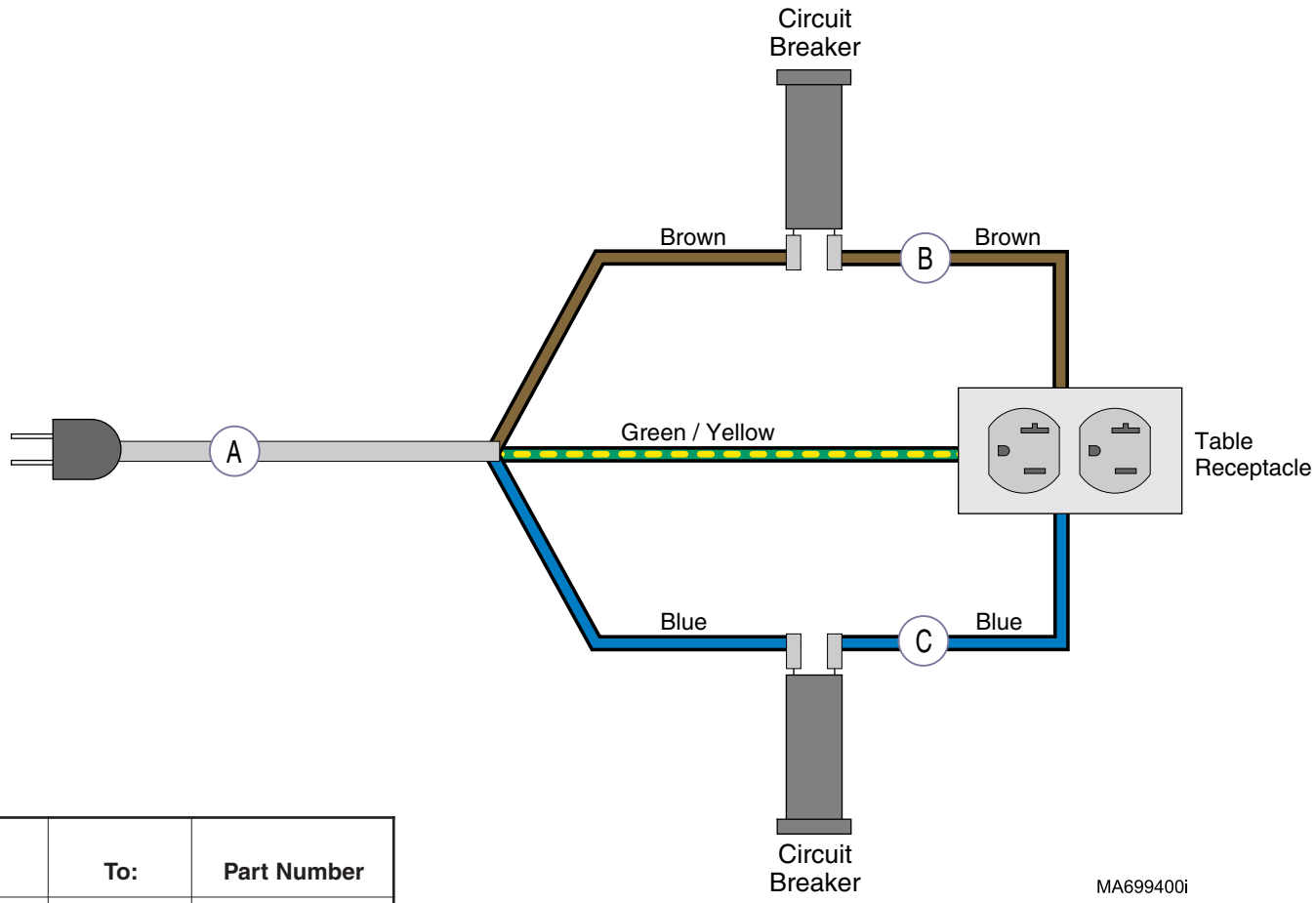
Wiring Diagrams



Wire Harness	From:	To:	Part Number
A	Power source	Circuit Breakers	**015-1963-00**
B	Circuit Breaker *(brown wire)*	Table Receptacle	**015-1886-00**
C	Circuit Breaker *(blue wire)*	Table Receptacle	**015-1886-01**

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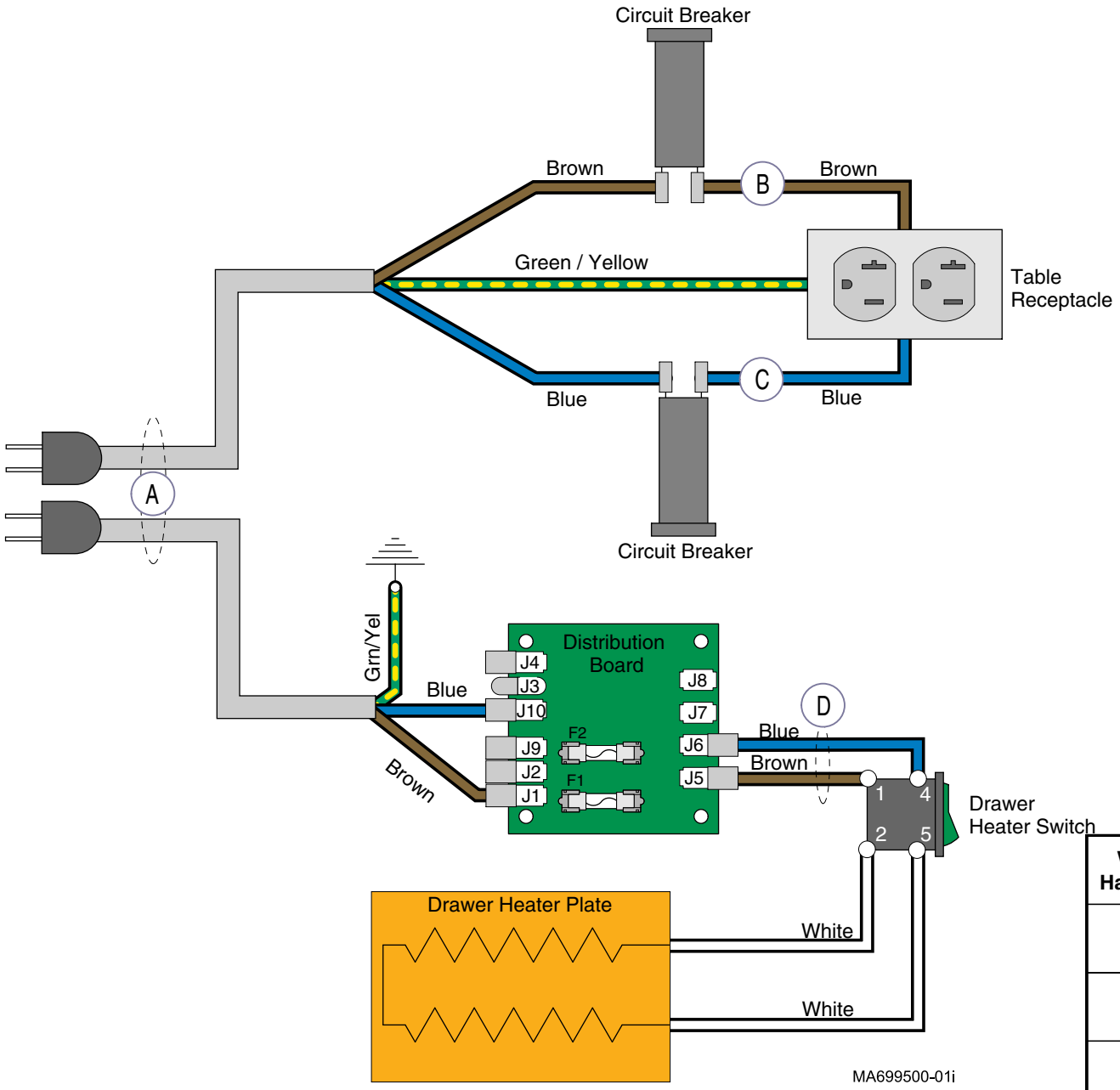
Wiring Diagrams

Fuses - refer to: Go To Page:
Drawer Heater System - *120 V* E-22



Wire Harness	From:	To:	Part Number
A	Power source	Circuit Breakers & Distr. Board	**015-1884-00**
B	Circuit Breaker *(brown wire)*	Table Receptacle	**015-1886-00**
C	Circuit Breaker *(blue wire)*	Table Receptacle	**015-1886-01**
D	Distribution Board	Drawer Heater Switch with Harness	**015-3326-00**

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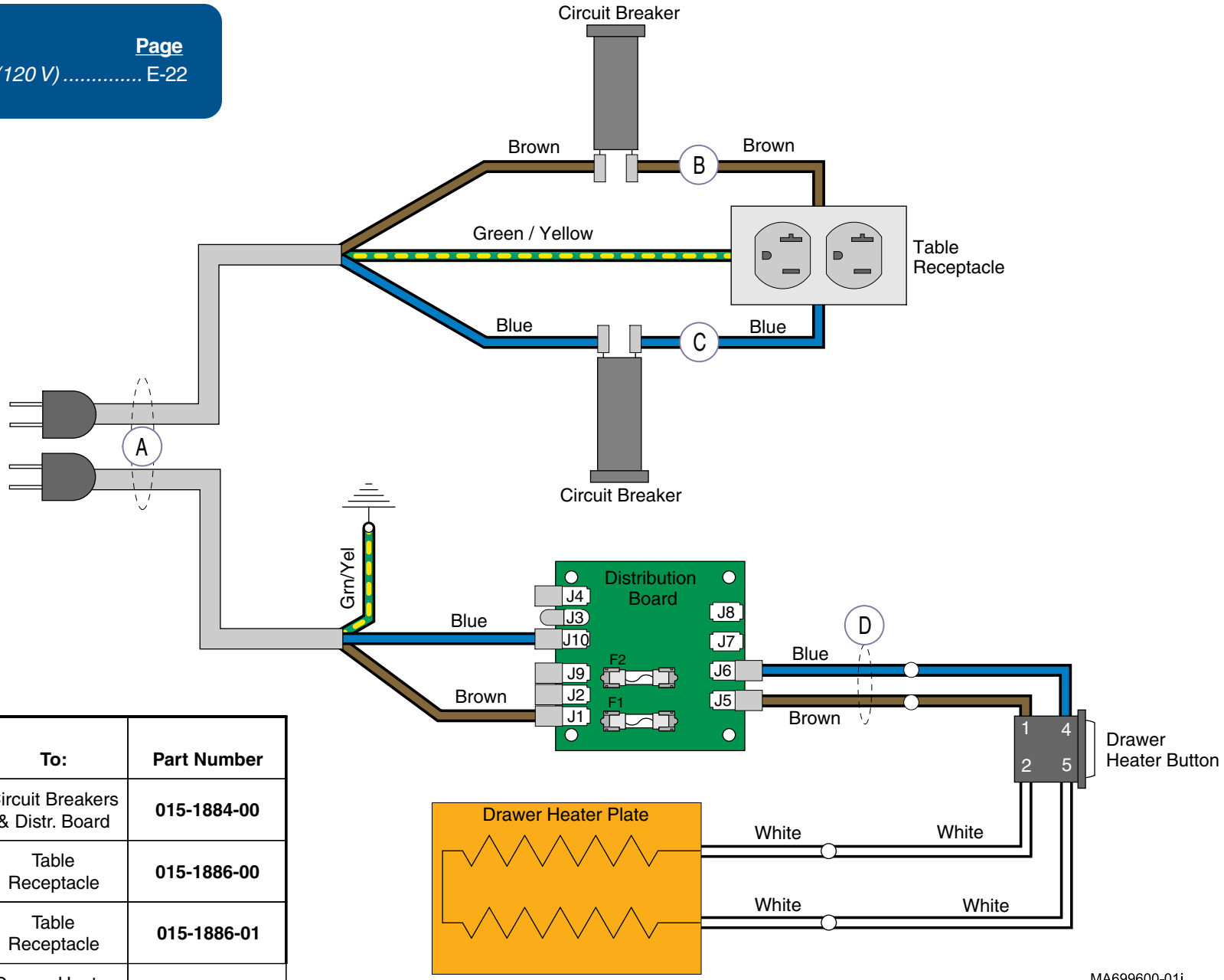
Wiring Diagrams

Fuses - refer to: **Page**
Drawer Heater System *(120 V)* E-22



Wire Harness	From:	To:	Part Number
A	Power source	Circuit Breakers & Distr. Board	**015-1884-00**
B	Circuit Breaker *(brown wire)*	Table Receptacle	**015-1886-00**
C	Circuit Breaker *(blue wire)*	Table Receptacle	**015-1886-01**
D	Distribution Board	Drawer Heater Button with Harness	**015-1759-00**

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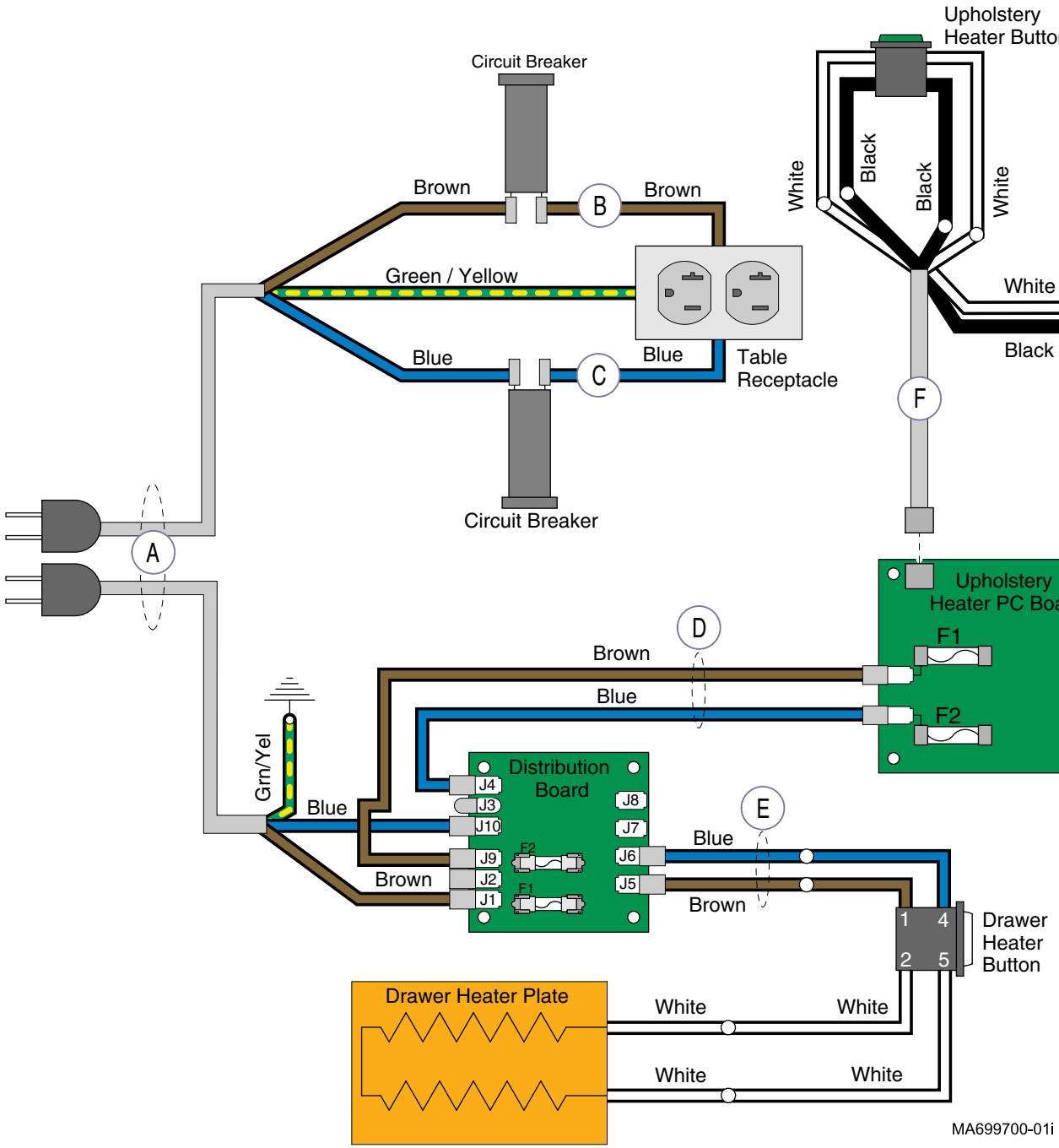
Wiring Diagrams

Fuses - refer to: Go To Page:

Drawer Heater System *120 V* E-22
Upholstery Heater System E-24



Wire Harness	From:	To:	Part Number
A	Power source	Circuit Breakers & Distr. Board	**015-1884-00**
B	Circuit Breaker *(brown wire)*	Table Receptacle	**015-1886-00**
C	Circuit Breaker *(blue wire)*	Table Receptacle	**015-1886-01**
D	Distribution Board	Uph. Heater PC Board	**015-2006-00**
E	Distribution Board	Drawer Heater Button with Harness	**015-1759-00**
F	Uph. Heater PC Board	Uph. Htr Button & Htg. Elements	**015-1722-00**

Models: *604 (-003)*
Serial Numbers: *All*

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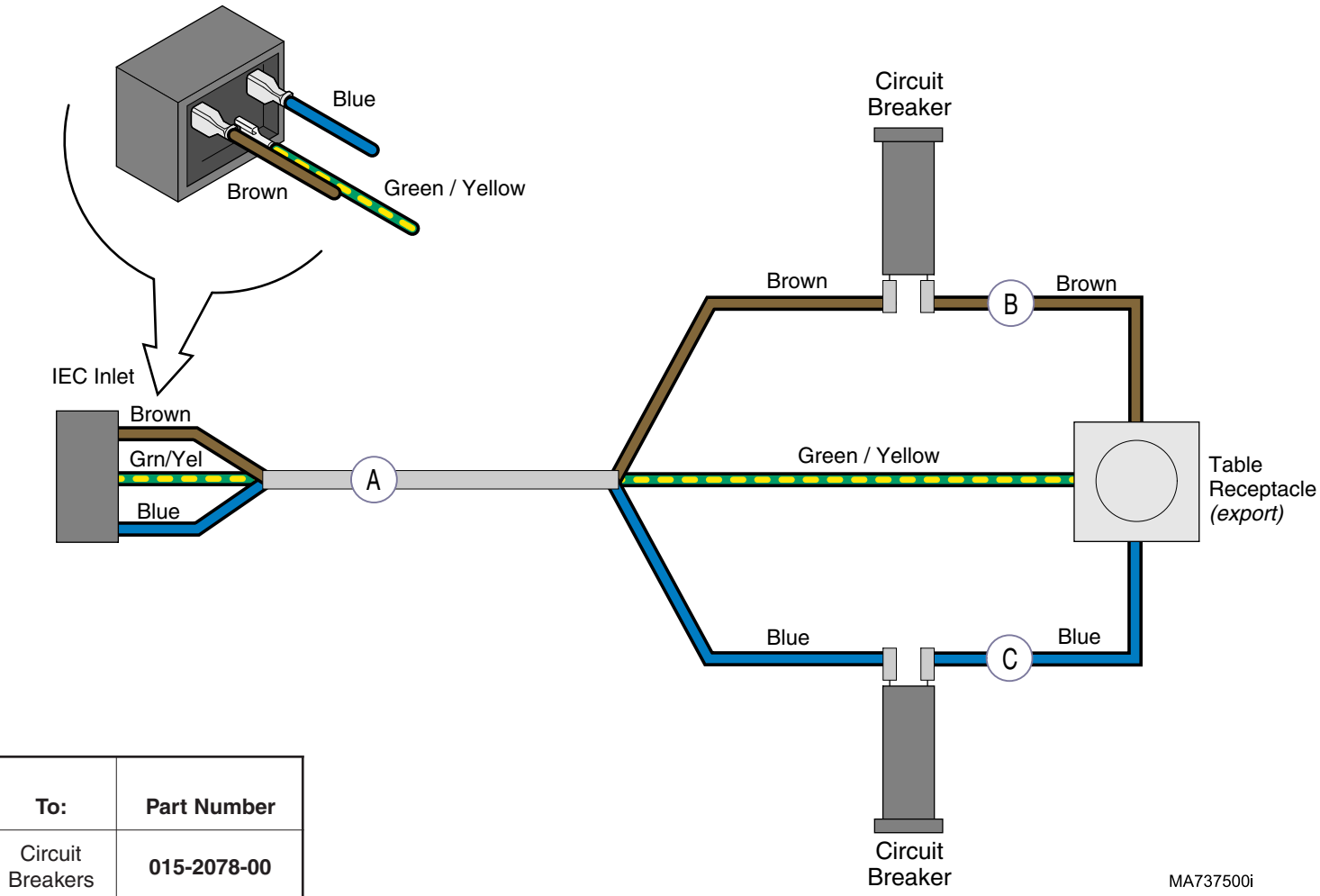
Wiring Diagrams

Go To Page:

(Rear View of IEC Inlet)



Wire Harness	From:	To:	Part Number
A	IEC Inlet	Circuit Breakers	**015-2078-00**
B	Circuit Breaker *(brown wire)*	Table Receptacle	**015-1886-00**
C	Circuit Breaker *(blue wire)*	Table Receptacle	**015-1886-01**

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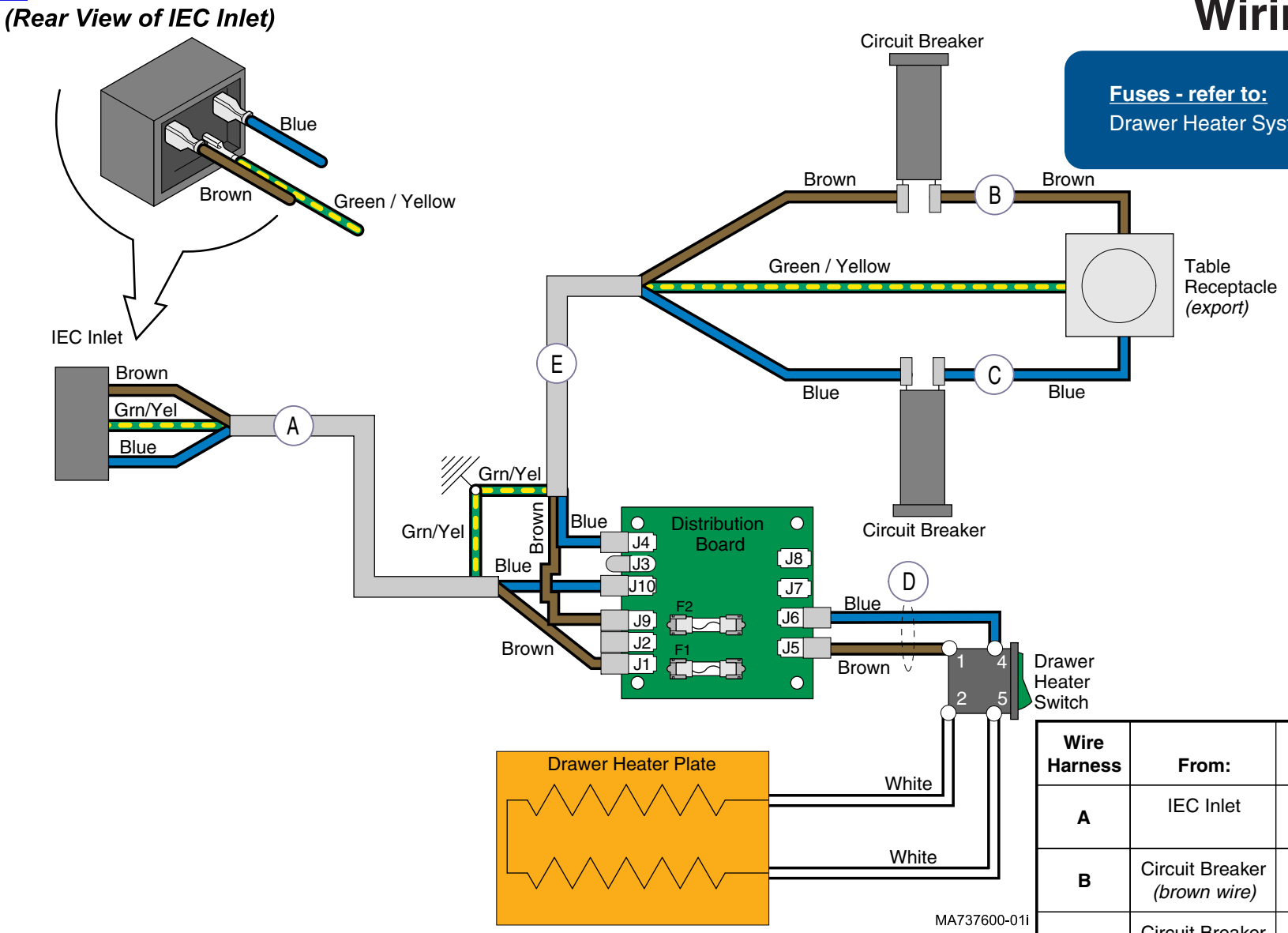
Wiring Diagrams



Fuses - refer to: Go To Page:
Drawer Heater System - *230 V*..... E-23

Wire Harness	From:	To:	Part Number
A	IEC Inlet	Distribution Board	**015-2079-00**
B	Circuit Breaker *(brown wire)*	Table Receptacle	**015-1886-00**
C	Circuit Breaker *(blue wire)*	Table Receptacle	**015-1886-01**
D	Distribution Board	Drawer Htr. Switch with Harness	**015-3326-00**
E	Distribution Board	Circuit Breakers	**015-2080-00**

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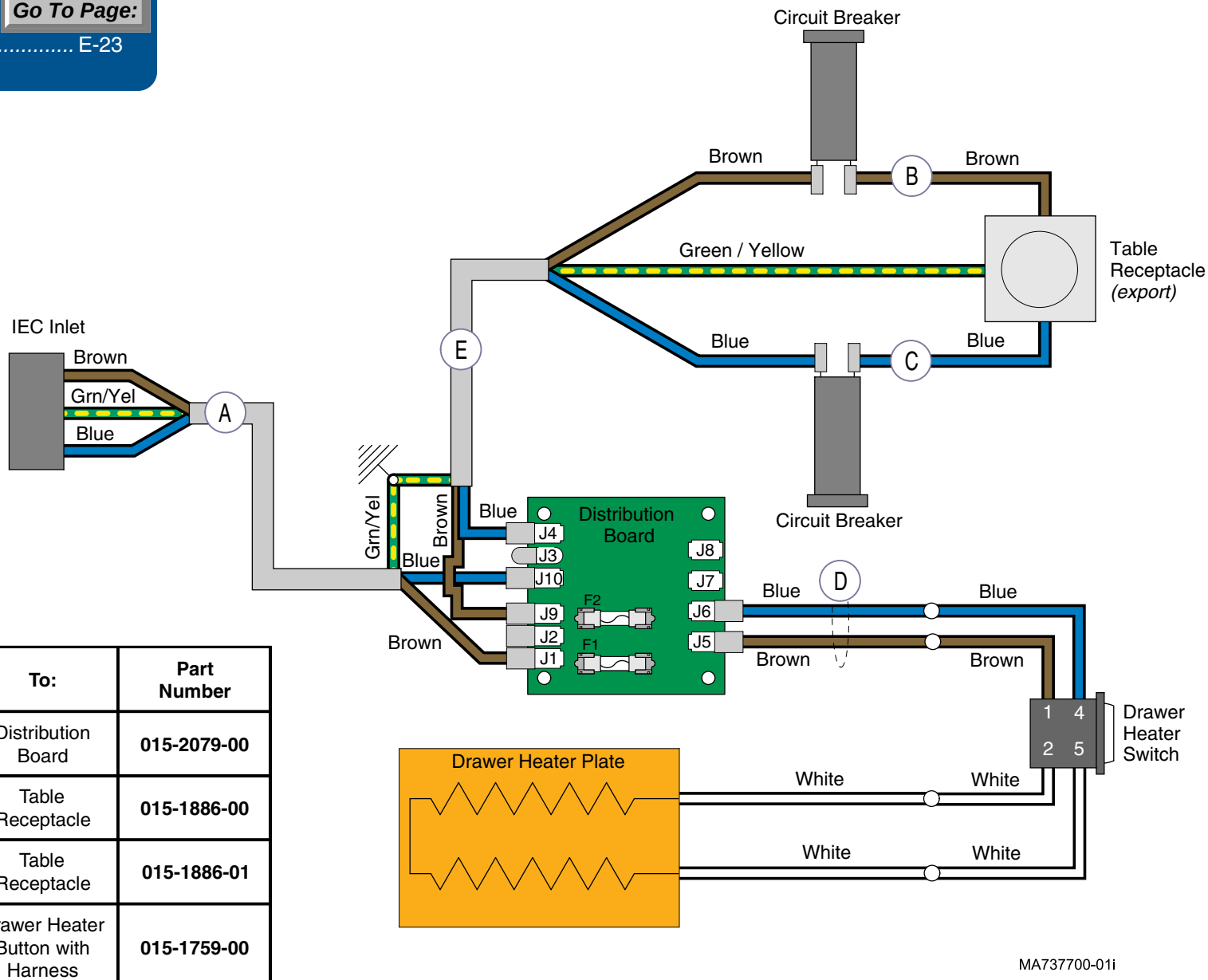
Wiring Diagrams

Fuses - refer to: **Go To Page:**

Drawer Heater System - *230 V* E-23



Wire Harness	From:	To:	Part Number
A	IEC Inlet	Distribution Board	**015-2079-00**
B	Circuit Breaker (brown wire)	Table Receptacle	**015-1886-00**
C	Circuit Breaker (blue wire)	Table Receptacle	**015-1886-01**
D	Distribution Board	Drawer Heater Button with Harness	**015-1759-00**
E	Distribution Board	Circuit Breakers	**015-2080-00**

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Section E

Exploded Views & Parts Lists

Model — Go To Page:

204:

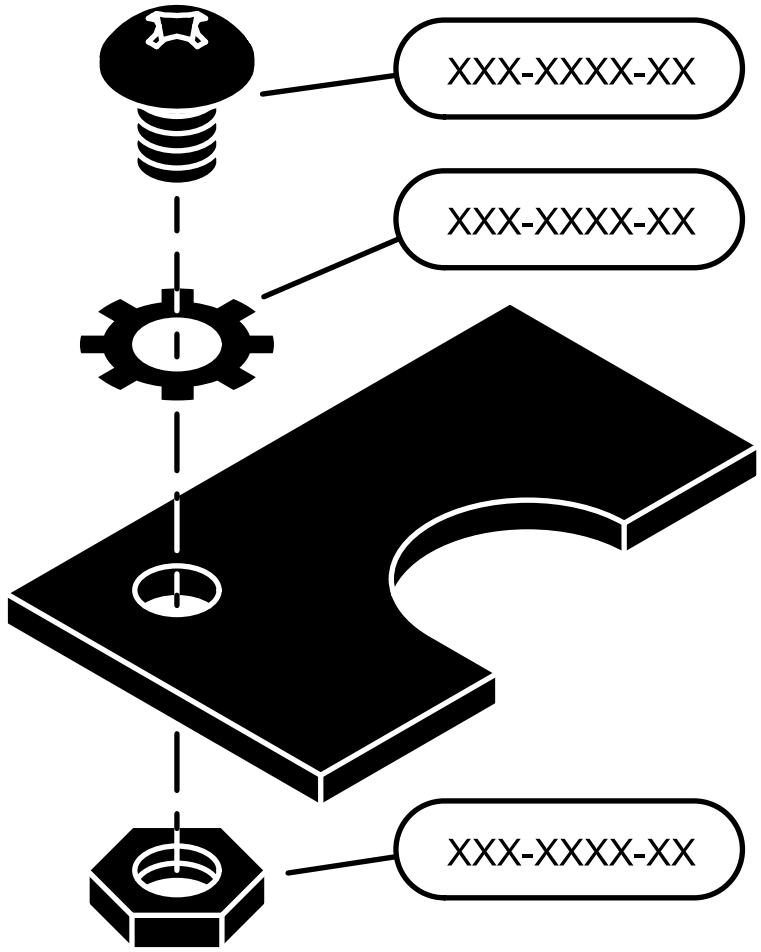
(-001 / -002 / -005) **E-2**

(-003 & -004) **E-3**

604 *(all)* **E-4**

Click on the Go To Page button and enter the desired page number.

(Note: Letters are case sensitve ex. A-2, not a-2)



204 *(-001 / -002 / -005 thru -007)*

The blue boxes on this page are "linked". Point and click on the text in the desired box to go to that page, or use the Go To Page button.

Go To Page:

Ritter Upholstery:
Soft Touch E-5
Seamless E-6

includes:
paper roll holder & drawer inserts

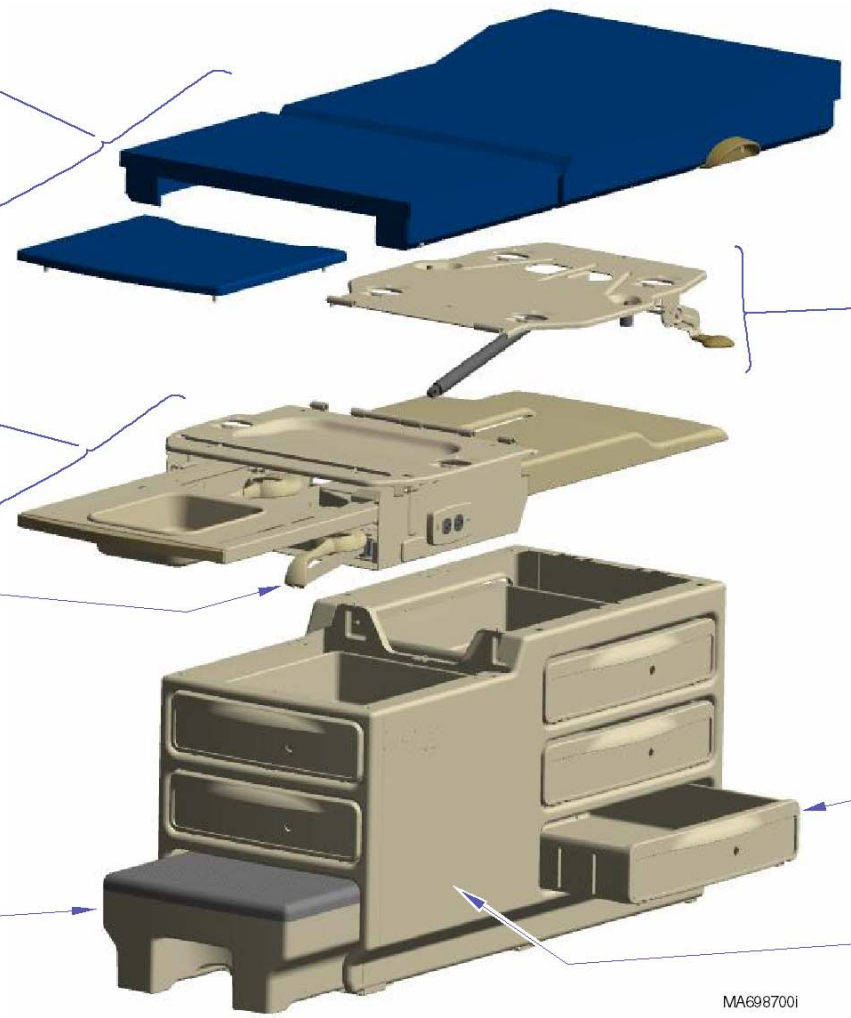
Ritter Upperwrap & Footrest Shelf E-10

includes:
seat weldment & top cover

Stirrups E-18

includes:
stirrup guide & pivot brackets

Foot Step E-17



Optional Features
Table Receptacle:
120 V E-19*
230 V E-20
Pelvic Tilt E-21
Drawer Heater:
120 V E-22
230 V E-23

Back Support Mechanism E-9

includes:
gas spring & release handles

Label Location E-26

Ritter Drawers E-14

includes:
all drawers & slides

Ritter Cabinet E-12*

includes:
leveling feet & base cover

**** Indicates multiple pages due to a model / serial number break for the parts illustration***

204 *(-003 / -004)*

The blue boxes on this page are "linked". Point and click on the text in the desired box to go to that page, or use the Go To Page button.

Go To Page:

Ritter Upholstery:
Soft Touch E-5
Seamless E-6

includes:
paper roll holder & drawer inserts

Ritter Upperwrap & Footrest Shelf E-10

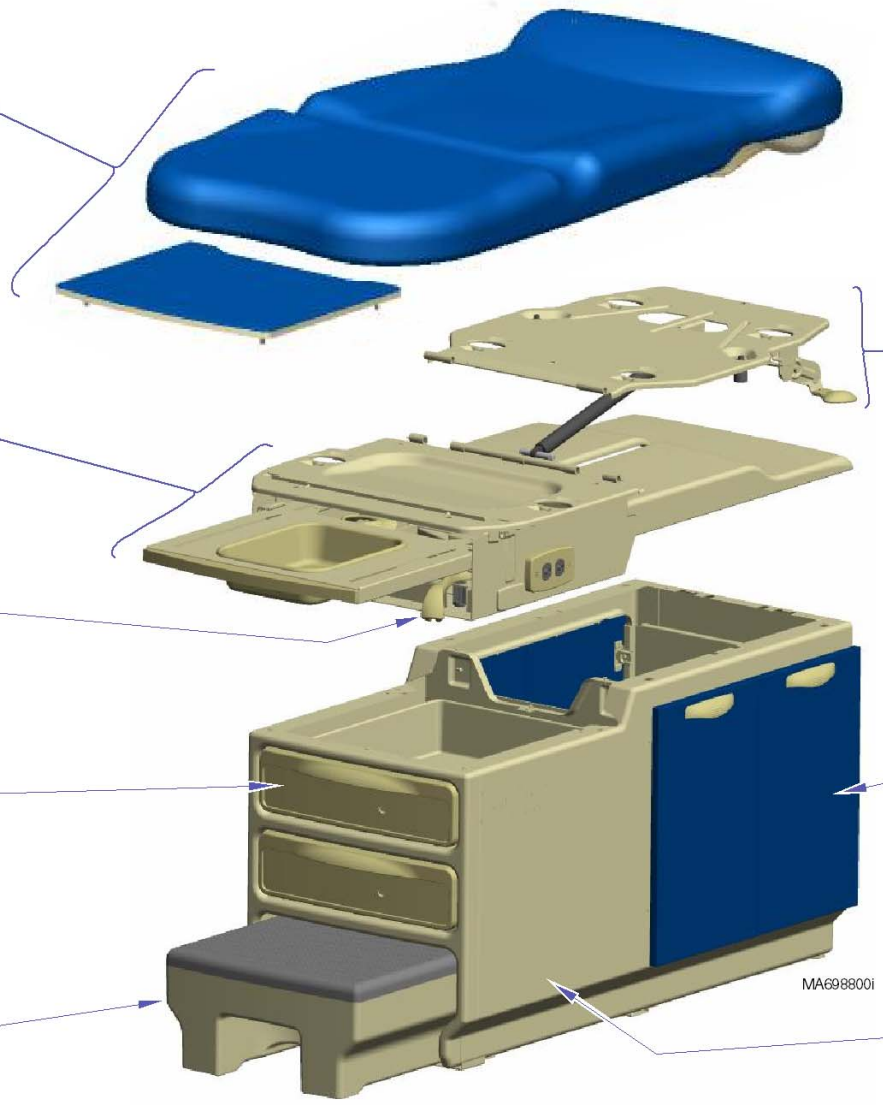
Stirrups E-18

includes:
stirrup guide & pivot brackets

Ritter Drawers E-14

includes:
foot end drawers & slides

Foot Step E-17



Optional Features
Table Receptacle:
120V E-19*
Pelvic Tilt E-21
Drawer Heater:
120 V E-22

Back Support Mechanism E-9

includes:
gas spring & release handles

Label Location E-26

Bulk Storage Doors E-16

includes:
hinges & mounting hardware

Ritter Cabinet E-12*

includes:
leveling feet & base/side covers

**** Indicates multiple pages due to a model / serial number break for the parts illustration***

604 *(all)*

The blue boxes on this page are "linked".
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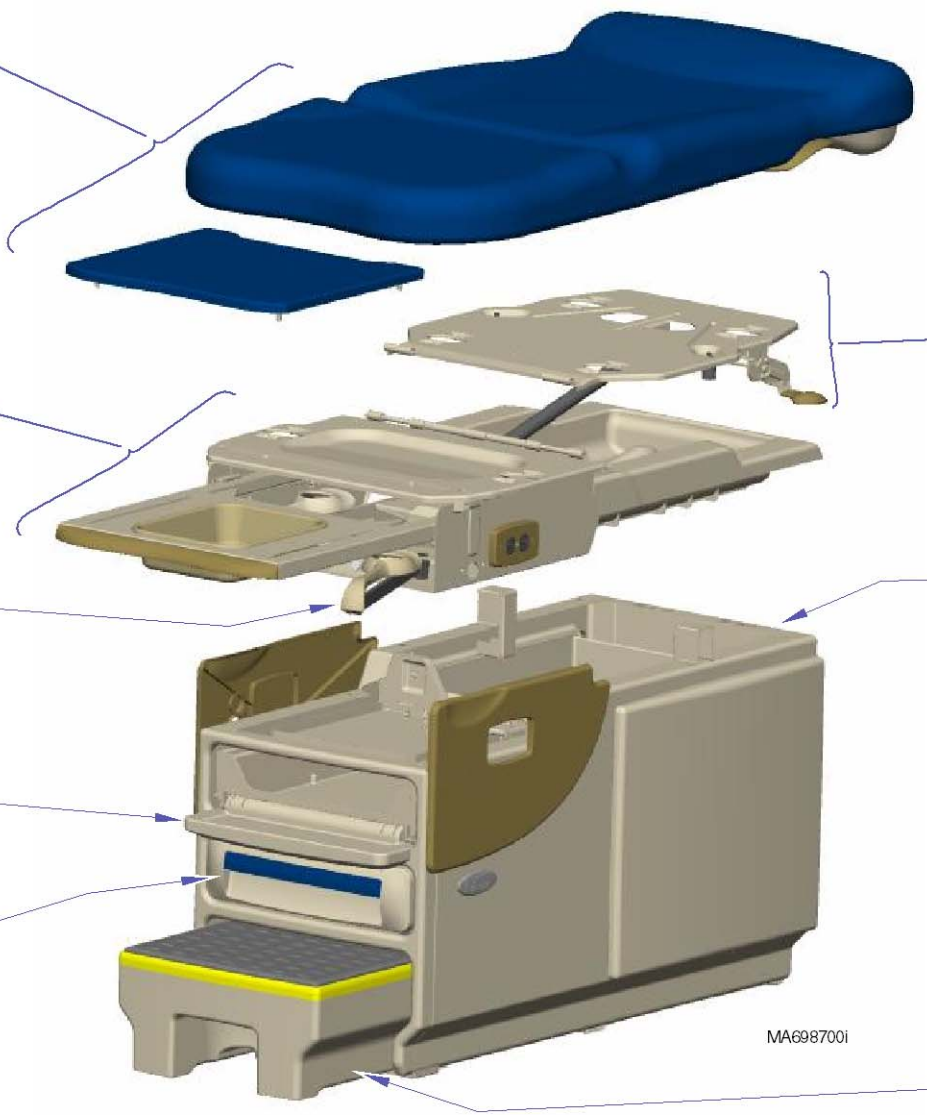
Go To Page:



Midmark Upholstery:
Premium E-7
w/ Uph. Heater E-7
Ultra-Premium E-8
w/ Uph. Heater E-8
includes:
paper roll holder & drawer inserts

Midmark Upperwrap & Footrest Shelf E-11

Stirrups E-18
includes:
stirrup guide & pivot brackets

Exam Assistant™ Drawer System E-25

Midmark Drawers E-15
includes:
side cover panel

Optional Features
Table Receptacle:
120 V E-19*
230 V E-20
Pelvic Tilt E-21
Drawer Heater:
120 V E-22
230 V E-23
Upholstery Heater E-24

Back Support Mechanism E-9
includes:
gas spring & release handles

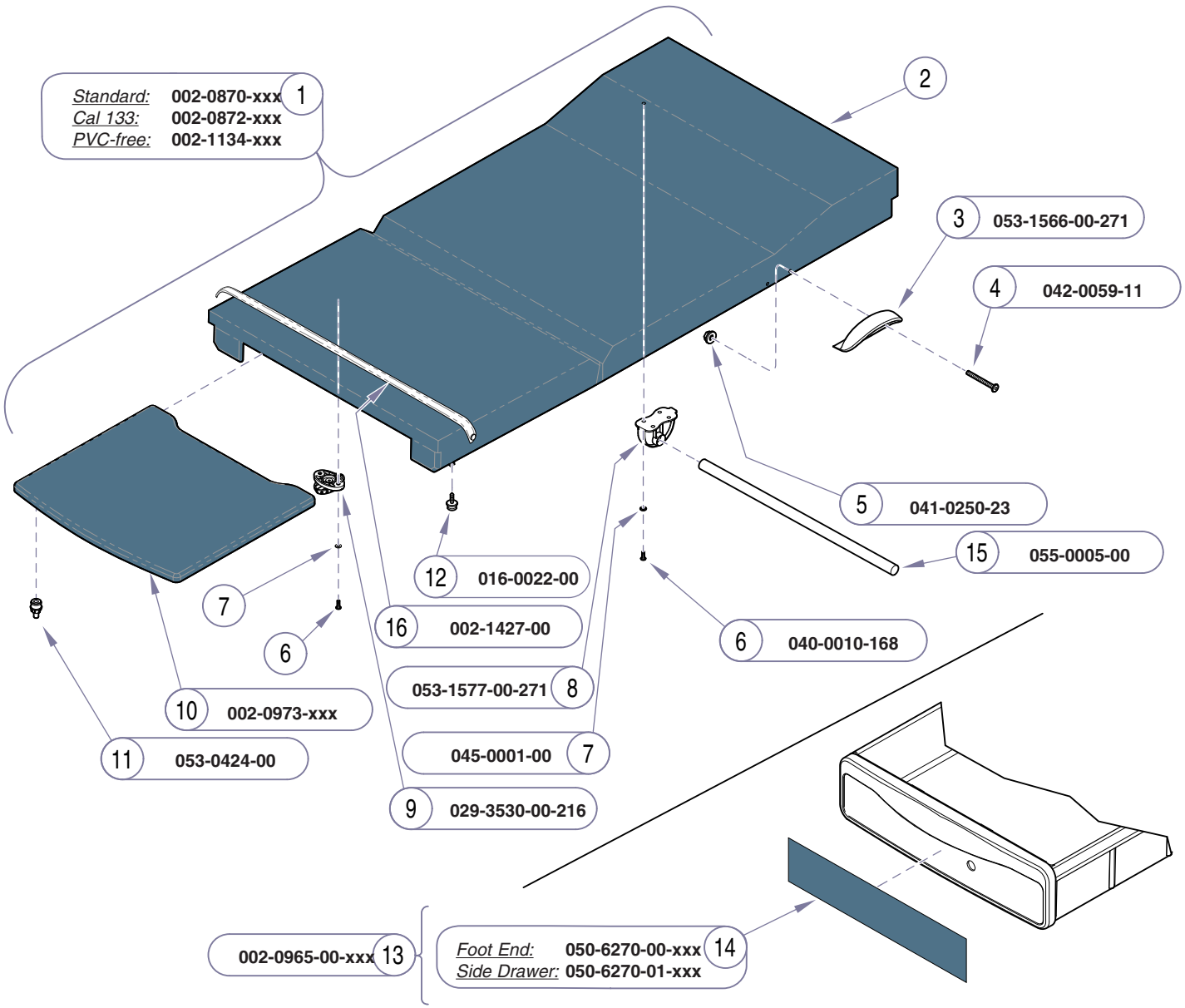
Midmark Cabinet E-13*
includes:
leveling feet & side cladding

Label Location E-26

Foot Step E-17

**** Indicates multiple pages due to a model / serial number break for the parts illustration***

Refer To: **Page**
Color Selector ..... www.midmark.com



MA705500i

ATTENTION: Refer to *Current Color Options* link above for available color codes to replace -xxx.

Item	Description	Qty.
1	Upholstery Set *(includes items 2 thru 13)* ...	1
2	• Seat/Back Upholstery *(must order item #1)* ...	1
3	• Handle ...	2
4	• Screw *(size??)* ...	4
5	• Nylock Flange Nut ...	4
6	• Screw *(10-24 x 5/8")* ...	20
7	• Washer *(early models only)* ...	20
8	• Paper Roll Bracket ...	2
9	• Locking Knob ...	6
10	• Footrest Pad ...	1
11	• Footrest Glide ...	4
12	• Snap / Stud ...	4
13	• Drawer Insert Kit *(includes: 6 side & 2 foot end inserts)* ...	1
14	• • Drawer Inserts: *Foot End* ...	2
	Side Drawer ...	6
15	Dowel Rod ...	1
16	Tear Strap ...	1

Always Specify Model & Serial Number

Models: *204 (all)*
Serial Numbers: *All*

Upholstery - Ritter
(Soft Touch)

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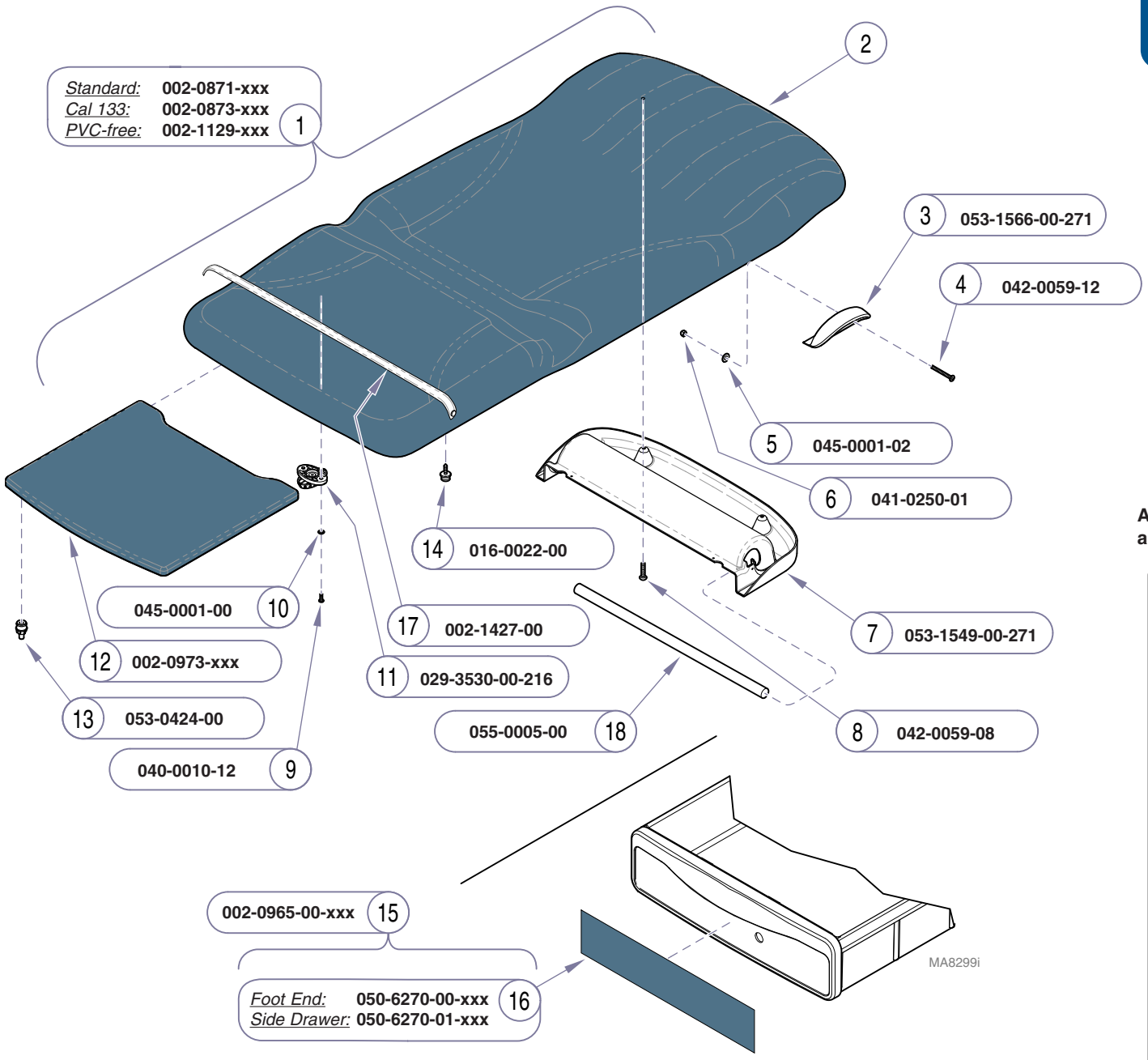

MA705600i

ATTENTION: Refer to *Current Color Options* link above for available color codes to replace -xxx.

Item	Description	Qty.
1	Upholstery Set *(includes items 2 thru 15)*	1
2	• Seat/Back Upholstery *(must order item #1)*	1
3	• Handle	2
4	• Bolt *(1/4-20 x 1.578")*	4
5	• Washer	4
6	• Nylock Nut	4
7	• Paper Roll Housing	1
8	• Screw *(10-24 x 5/8")*	4
9	• Screw	12
10	• Washer	12
11	• Locking Knob	6
12	• Footrest Pad	1
13	• Footrest Glide	4
14	• Snap / Stud	4
15	• Drawer Insert Kit *(includes: 6 side & 2 foot end inserts)*	1
16	• • Drawer Inserts:	
	Foot End	2
	Side Drawer	6
17	Tear Strap	1
18	Dowel Rod	1

Always Specify Model & Serial Number

Upholstery - Ritter
(Seamless)

Models: ***204 (all)***
Serial Numbers: *All*

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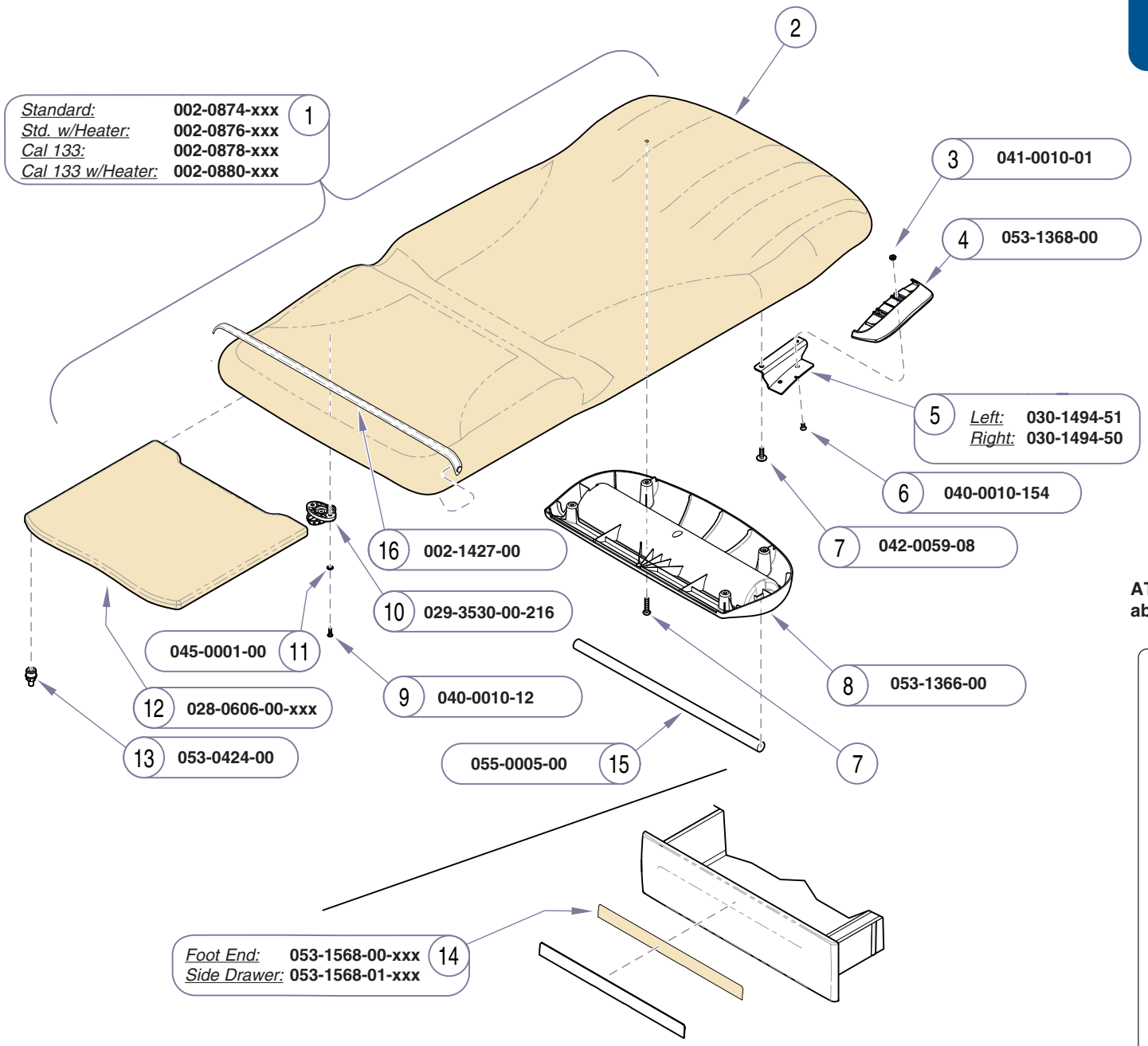

MA705700i

ATTENTION: Refer to *Current Color Options* link above for available color codes to replace -xxx.

Item	Description	Qty.
1	Upholstery Set *(includes items 2 thru 15)*	1
2	• Seat/Back Upholstery *(must order item #1)*	1
3	• Nut	4
4	• Handle	2
5	• Handle Bracket	2
6	• Screw	4
7	• Screw	4
8	• Paper Roll Housing	1
9	• Screw *(10-24 x 5/8)*	8
10	• Locking Knob	6
11	• Washer	12
12	• Footrest Pad *(includes item 14 - qty 4)*	1
13	• • Footrest Glide	4
14	• Color Drawer Insert *(3 side & 2 foot)*	5
15	Dowel Rod	1
16	Tear Strap	1

Always Specify Model & Serial Number

Models: ***604 (all)***
Serial Numbers: *All*

Upholstery - Midmark
(Premium)

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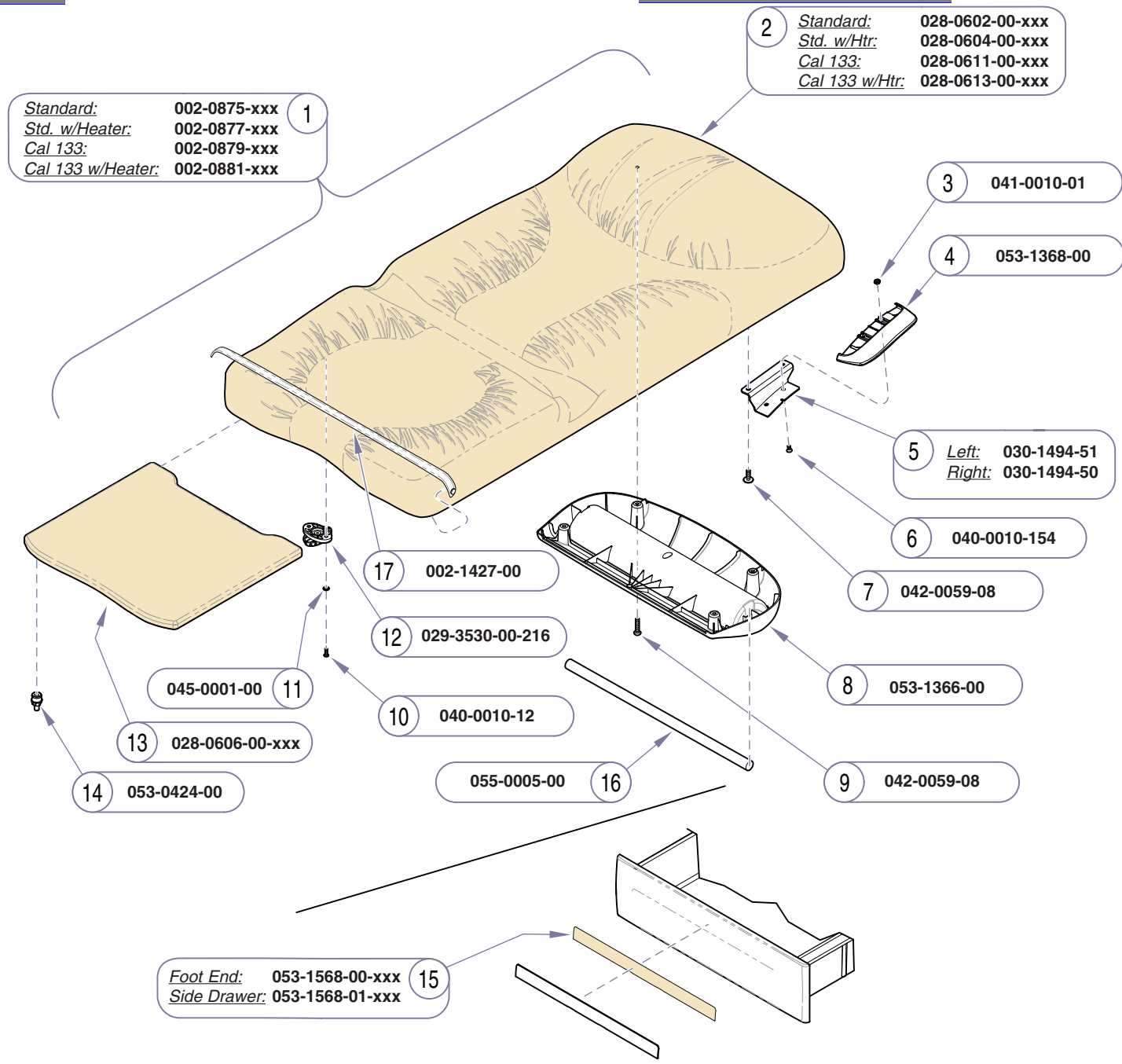
Color Selector ..... www.midmark.com



MA689702i

Item	Description	Qty.
1	Upholstery Set *(includes items 2 thru 15)*	1
2	• Seat/Back Upholstery	1
3	• Nut	4
4	• Handle	2
5	• Handle Bracket	2
6	• Screw	4
7	• Screw	4
8	• Paper Roll Housing	1
9	• Screw *(10-24 x 5/8)*	8
10	• Screw	12
11	• Locking Knob	6
12	• Washer	12
13	• Footrest Pad *(includes item 14 - qty 4)*	1
14	• • Footrest Glide	4
15	• Color Drawer Insert *(3 side & 2 foot)*	5
16	Dowel Rod	1
17	Tear Strap	1

Always Specify Model & Serial Number

Upholstery - Midmark
(Ultra-Premium)

Models: ***604 (all)***
Serial Numbers: *All*

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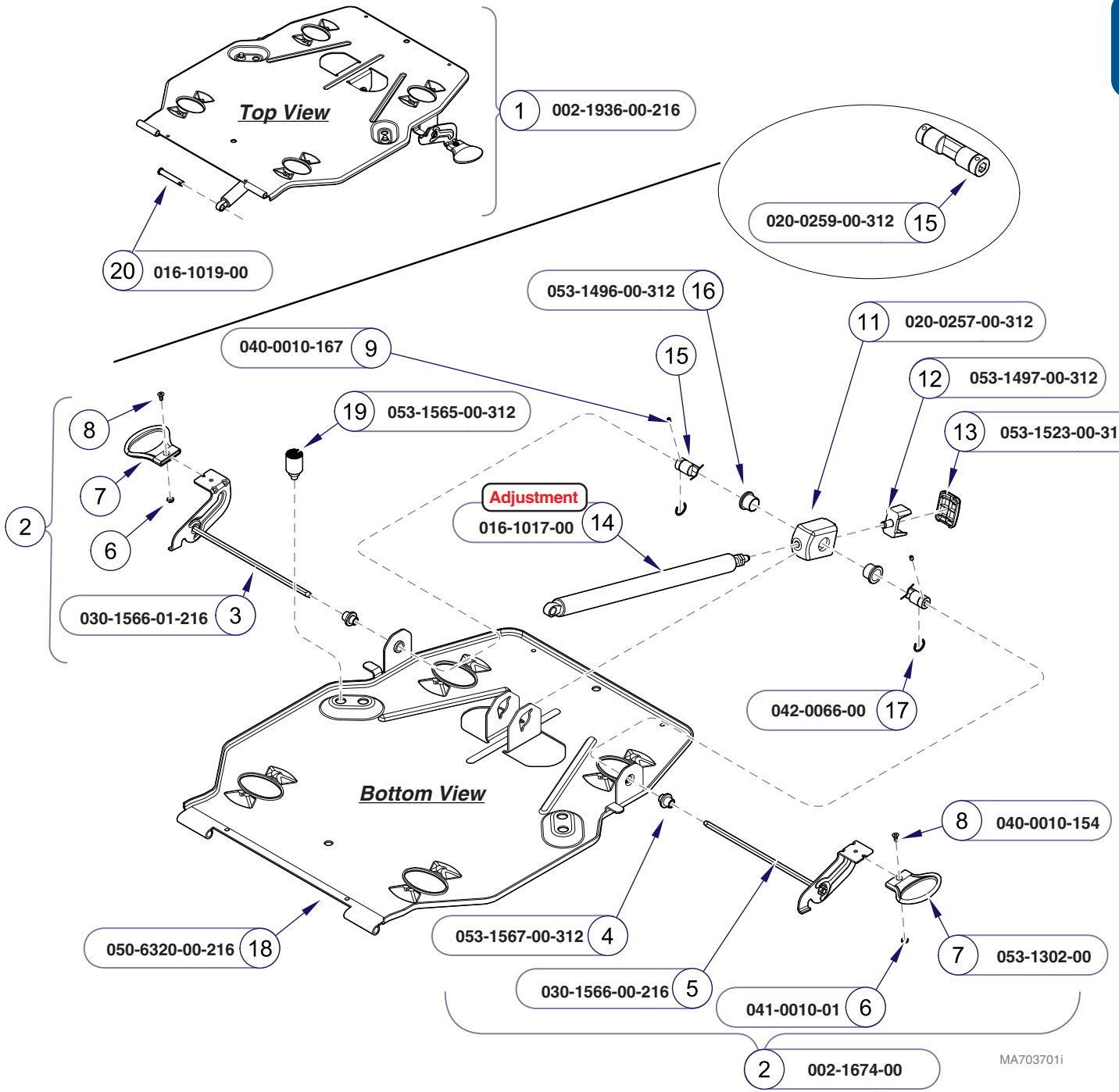
Refer To: Gas Cylinder Adjustment B-2

Go To Page:



Item	Description	Qty.
1	Back Assembly *(incl. items 2 thru 20)*	1
2	• Backrest Handle Kit *(incl. items 3 thru 9)*	1
3	• • Back Release Weldment *(LH)*	1
4	• • Bushing	2
5	• • Back Release Weldment *(RH)*	1
6	• • Nut *(#10-32)*	2
7	• • Handle	2
8	• • Screw *(#32 x 7/16")*	2
9	• • Set Screw *(#32 x 1/4")*	2
10	• Actuator Cap Housing Kit *(includes items 11 thru 13)*	1
11	• • Housing	1
12	• • Plunger	1
13	• • Housing Cap	1
14	• Gas Spring	1
15	• Cam	1
16	• Bushing	2
17	• E-ring *(3/4")*	2
18	• Back Support Weldment	1
19	• Bumper	2
20	• Clevis Pin *(w/plunger)*	1

Always Specify Model & Serial Number

Models: ***All***
Serial Numbers: *All*

Back Support Mechanism

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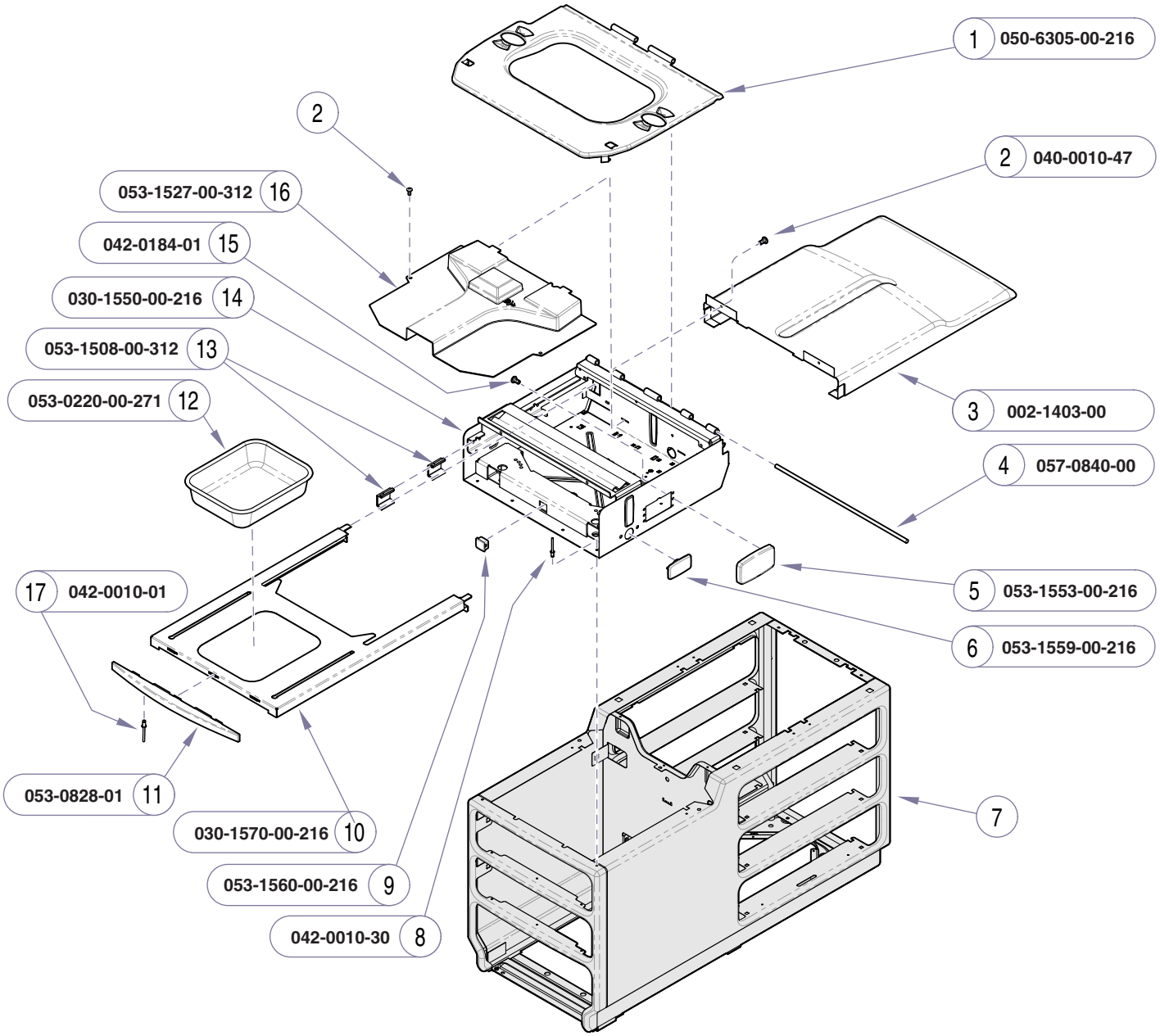
Refer To: Ritter Cabinet ..... E-12 **Go To Page:**



MA704300i

Item	Description	Qty.
1	Seat Mounting Plate	1
2	Screw *(#10-24 x 3/8")*	2
3	204 Top Cover Kit *(Converts steel cover to plastic cover; includes plastic cover, mounting brackets and pop rivets)*	1
4	Hinge Rod	1
5	Cover *(models w/o receptacle)*	1
6	Hole Cover	2
7	Refer to: *"Ritter Cabinet"*	Ref
8	Pop Rivet	12
9	Plug	1
10	Footrest Shelf	1
11	Footrest Pull	1
12	Treatment Pan	1
13	Glide	4
14	Upperwrap	1
15	Screw *(K40 x 12)*	1
16	Stirrup Guide	1
17	Pop Rivet	2

Always Specify Model & Serial Number

Ritter Upperwrap & Footrest Shelf

Models: *Serial Numbers:* ***204*** ***(all)*** *prior to V232022*

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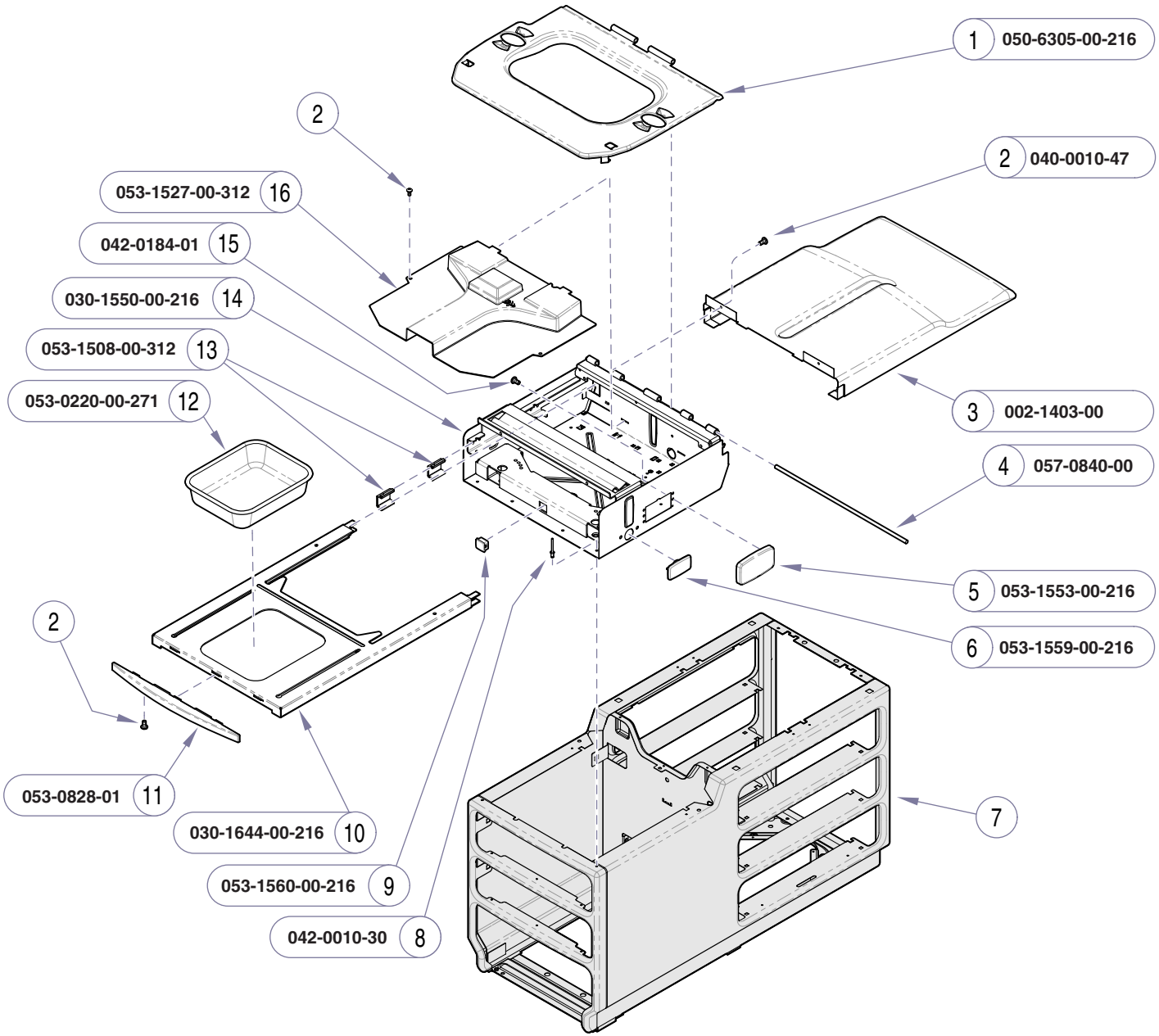
Refer To: Ritter Cabinet E-12

Go To Page:



MA704301i

Item	Description	Qty.
1	Seat Mounting Plate	1
2	Screw *(#10-24 x 3/8")*	4
3	204 Top Cover Kit *(Converts steel cover to plastic cover; includes plastic cover, mounting brackets and pop rivets)*	1
4	Hinge Rod	1
5	Cover *(models w/o receptacle)*	1
6	Hole Cover	2
7	Refer to: *"Ritter Cabinet"*	Ref
8	Pop Rivet	12
9	Plug	1
10	Footrest Shelf	1
11	Footrest Pull	1
12	Treatment Pan	1
13	Glide	4
14	Upperwrap	1
15	Screw *(K40 x 12)*	1
16	Stirrup Guide	1

Always Specify Model & Serial Number

Models: ***204 (all)***
Serial Numbers: *V232022 to V816454*

Ritter Upperwrap & Footrest Shelf

E-10.1

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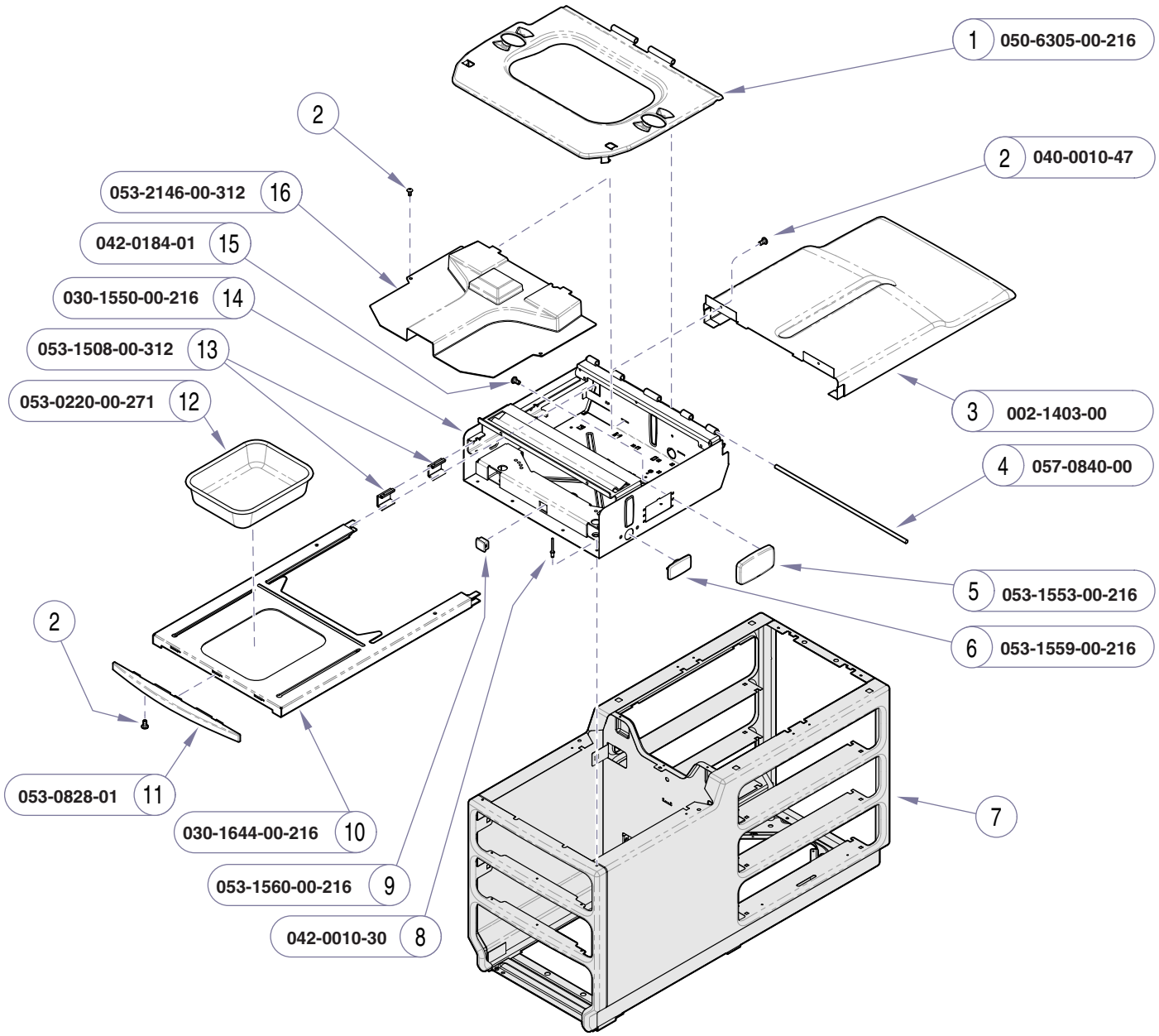
Refer To: Ritter Cabinet ..... E-12 **Go To Page:**



Item	Description	Qty.
1	Seat Mounting Plate	1
2	Screw *(#10-24 x 3/8")*	2
3	204 Top Cover Kit *(Converts steel cover to plastic cover; includes plastic cover, mounting brackets and pop rivets)*	1
4	Hinge Rod	1
5	Cover *(models w/o receptacle)*	1
6	Hole Cover	2
7	Refer to: *"Ritter Cabinet"*	Ref
8	Pop Rivet	12
9	Plug	1
10	Footrest Shelf	1
11	Footrest Pull	1
12	Treatment Pan	1
13	Glide	4
14	Upperwrap	1
15	Screw *(K40 x 12)*	1
16	Stirrup Guide	1
17	Pop Rivet	2

Always Specify Model & Serial Number

Ritter Upperwrap & Footrest Shelf

Models: ***204 (all)***
Serial Numbers: *V816455 to V971750*

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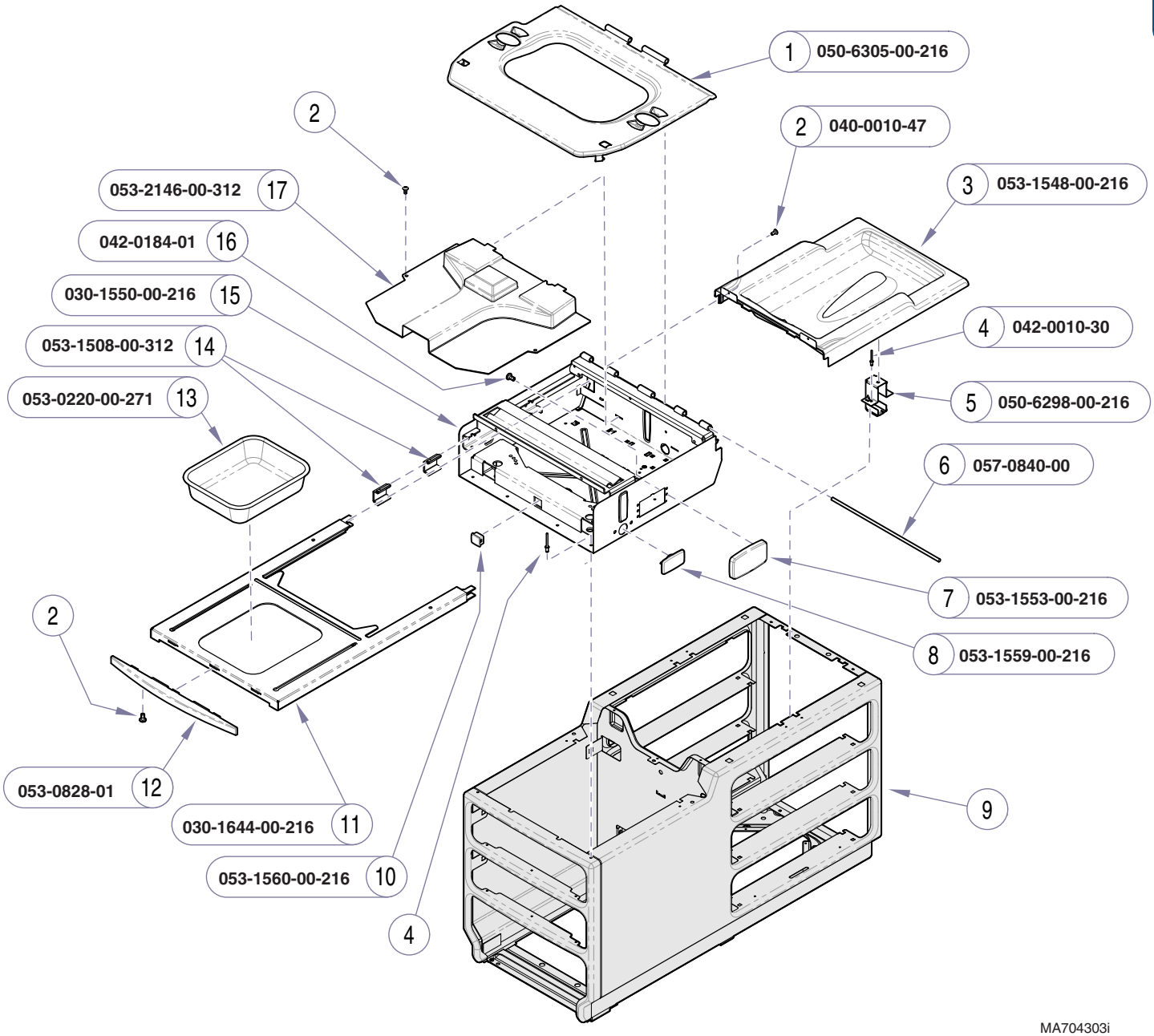
Refer To: Ritter Cabinet ..... E-12 *Go To Page:*



Item	Description	Qty.
1	Seat Mounting Plate	1
2	Screw *(#10-24 x 3/8")*	2
3	Plastic Top Cover	1
4	Pop Rivet	12
5	Top Cover Support Bracket	2
6	Hinge Rod	1
7	Cover *(models w/o receptacle)*	1
8	Hole Cover	2
9	Refer to: *"Ritter Cabinet"*	Ref
10	Plug	1
11	Footrst Shelf	1
12	Footrest Pull	1
13	Treatment Pan	1
14	Glide	4
15	Upperwrap	1
16	Screw *(K40 x 12)*	1
17	Stirrup Guide	1

Always Specify Model & Serial Number

Models: ***204 (all)***
Serial Numbers: *V971751 to present*

Ritter Upperwrap & Footrest Shelf

E-10.3

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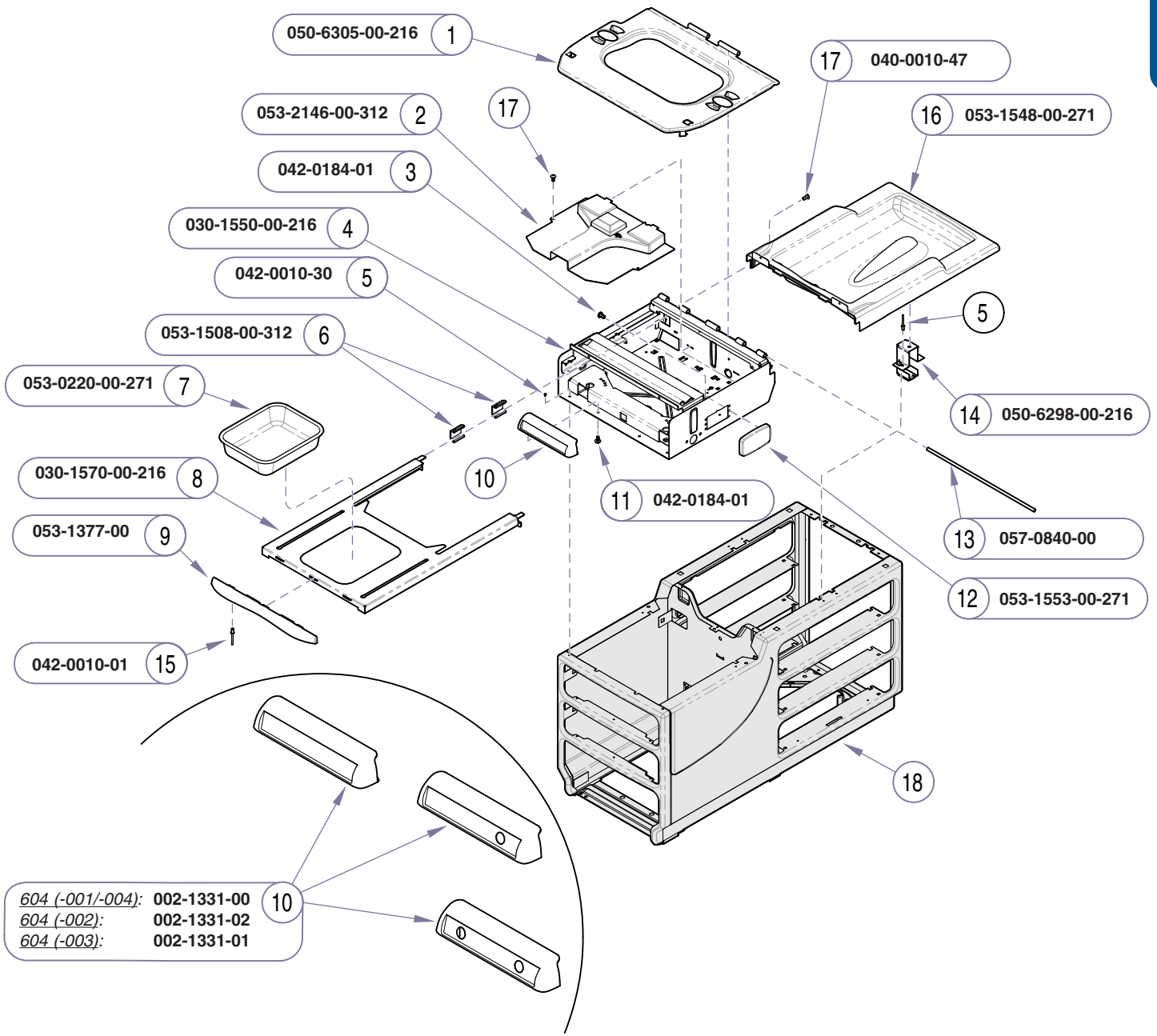
Refer To: Midmark Cabinet E-13

Go To Page:



MA704403i

Item	Description	Qty.
1	Seat Mounting Plate	1
2	Stirrup Guide	1
3	Screw *(K40 x 12)*	1
4	Upperwrap	1
5	Pop Rivet	8
6	Glide	4
7	Treatment Pan	1
8	Footrest Shelf	1
9	Footrest Pull	1
10	Switch Housing and Label Kit (includes label)	1
11	Screw	2
12	Cover *(models w/o receptacle)*	1
13	Hinge Rod	1
14	Top Cover Support Bracket	2
15	Pop Rivet	2
16	Top Cover	2
17	Screw *(#10-24 x 3/8")*	4
18	Refer to: *"Midmark Cabinet"*	Ref

Always Specify Model & Serial Number

Midmark Upperwrap & Footrest Shelf

Models: *604 (all)*
Serial Numbers: *prior to V323022*

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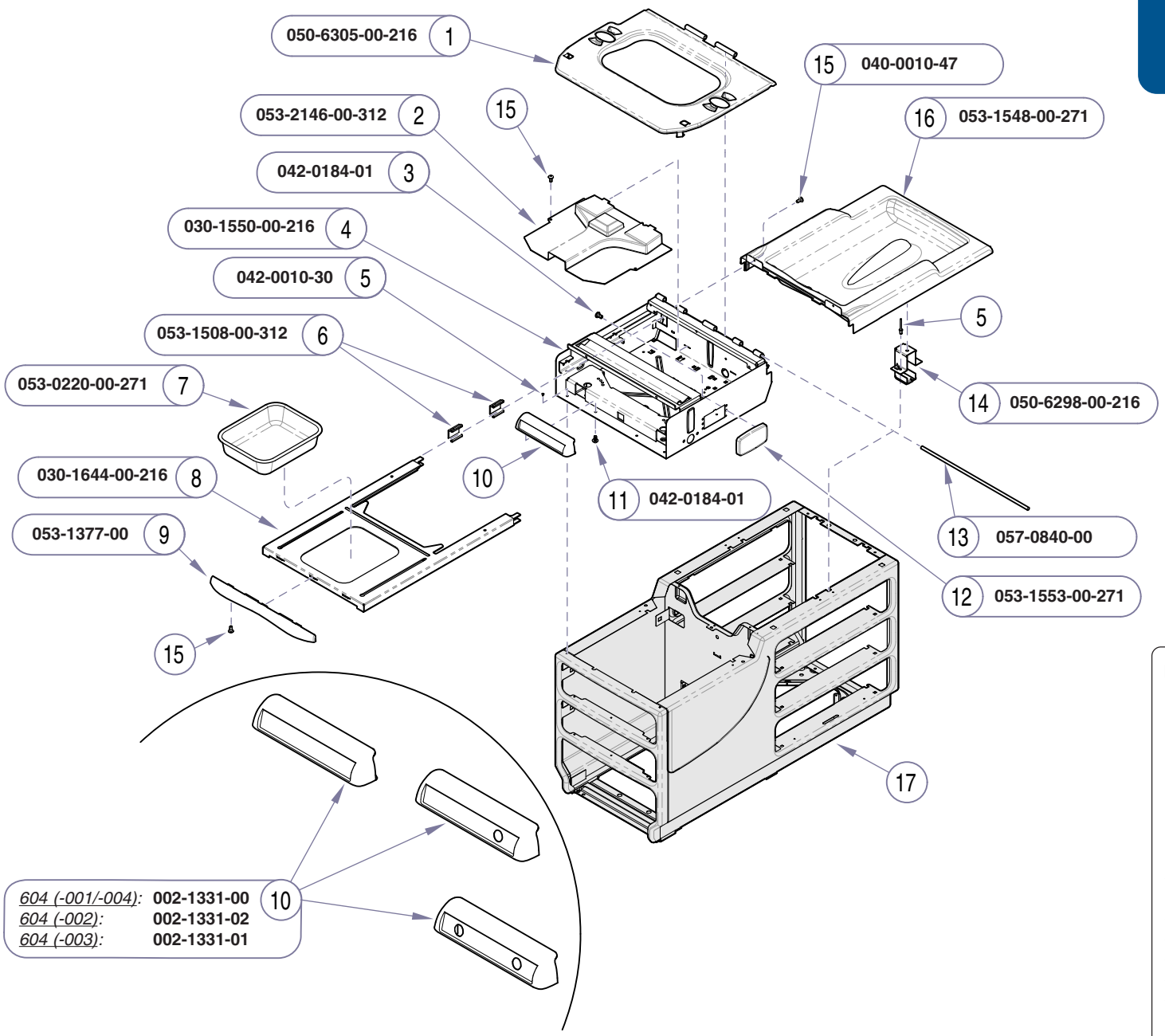
Refer To: Midmark Cabinet E-13

Go To Page:



MA704402i

Item	Description	Qty.
1	Seat Mounting Plate	1
2	Stirrup Guide	1
3	Screw *(K40 x 12)*	1
4	Upperwrap	1
5	Pop Rivet	14
6	Glide	4
7	Treatment Pan	1
8	Footrest Shelf	1
9	Footrest Pull	1
10	Switch Housing and Label Kit (includes label)	1
11	Screw	2
12	Cover *(models w/o receptacle)*	1
13	Hinge Rod	1
14	Top Cover Support Bracket	2
15	Screw *(#10-24 x 3/8")*	6
16	Top Cover	1
17	Refer to: *"Midmark Cabinet"*	Ref

Always Specify Model & Serial Number

Models: ***604 (all)***
Serial Numbers: *V323022 to present*

Midmark Upperwrap & Footrest Shelf

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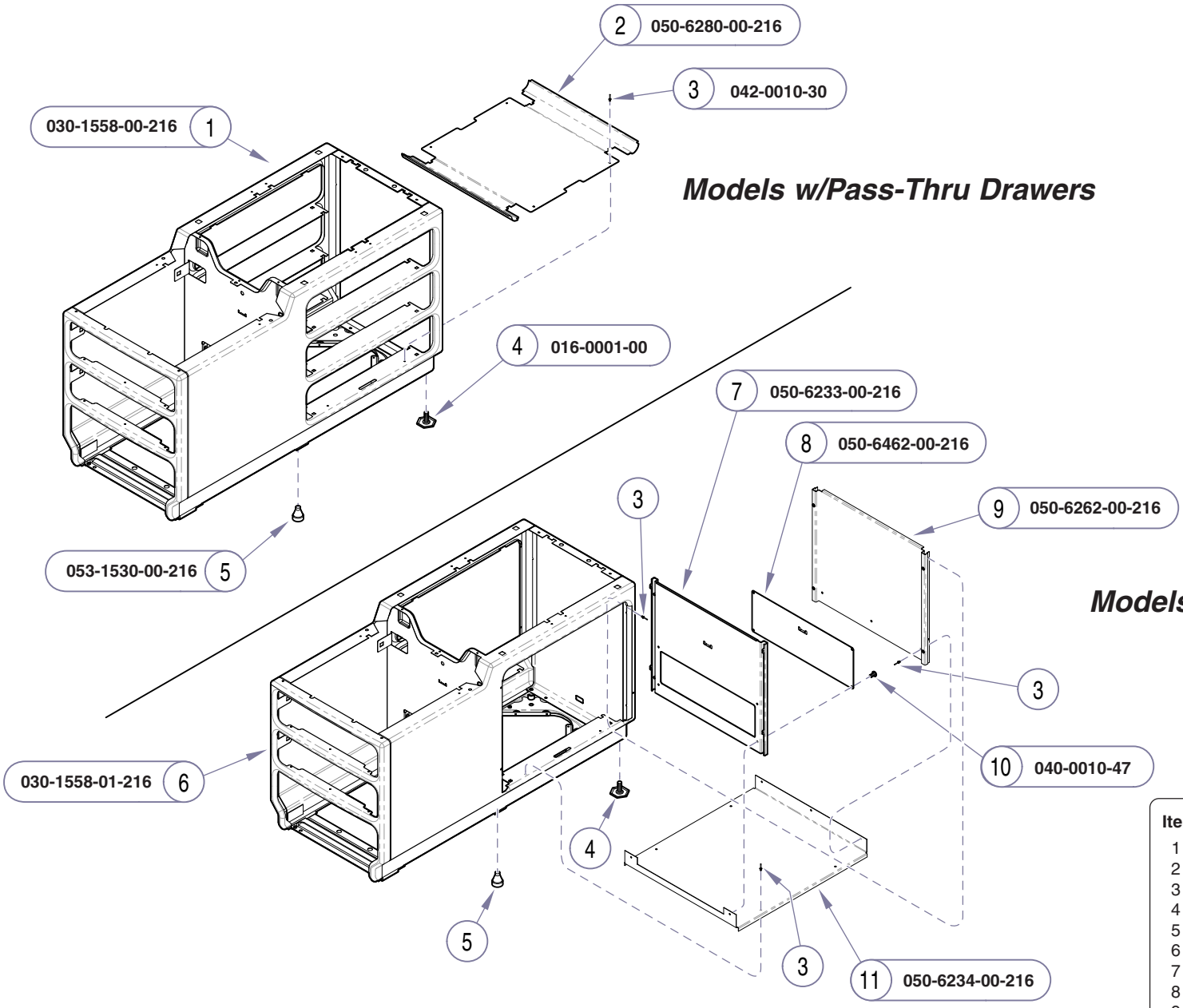

MA704200i

Item	Description	Qty.
1	Ritter Cabinet *(w/Pass-Thru Drawers)*	1
2	Bottom Panel	1
3	Pop Rivet *(5/32")*	4
4	Leveling Foot	2
5	Stem Bumper	4
6	Ritter Cabinet *(w/Bulk Storage Doors)*	1
7	Center Panel	1
8	Access Cover	1
9	End Panel	1
10	Screw *(#10-24 x 3/8")*	4
11	Bottom Panel	1

Always Specify Model & Serial Number

Ritter Cabinet

Models: ***204 (all)***
Serial Numbers: *V1000 thru V264212*

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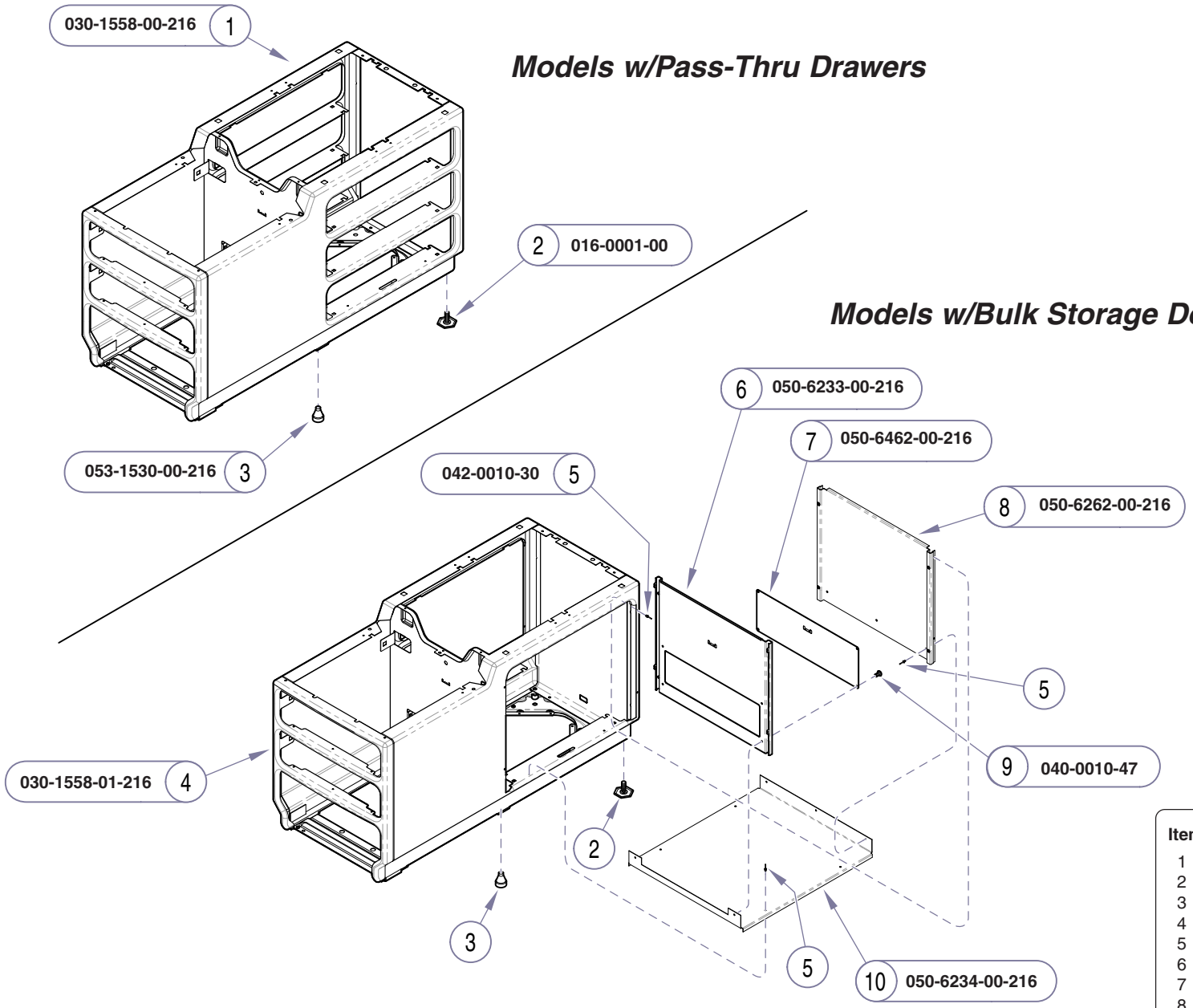

Item	Description	Qty.
1	Ritter Cabinet *(w/Pass-Thru Drawers)*	1
2	Leveling Foot	2
3	Stem Bumper	4
4	Ritter Cabinet *(w/Bulk Storage Doors)*	1
5	Pop Rivet *(5/32")*	4
6	Center Panel	1
7	Access Cover	1
8	End Panel	1
9	Screw *(#10-24 x 3/8")*	4
10	Bottom Panel	1

Always Specify Model & Serial Number

Models: ***204 (all)***
Serial Numbers: *V264213 thru present*

Ritter Cabinet

E-12.1

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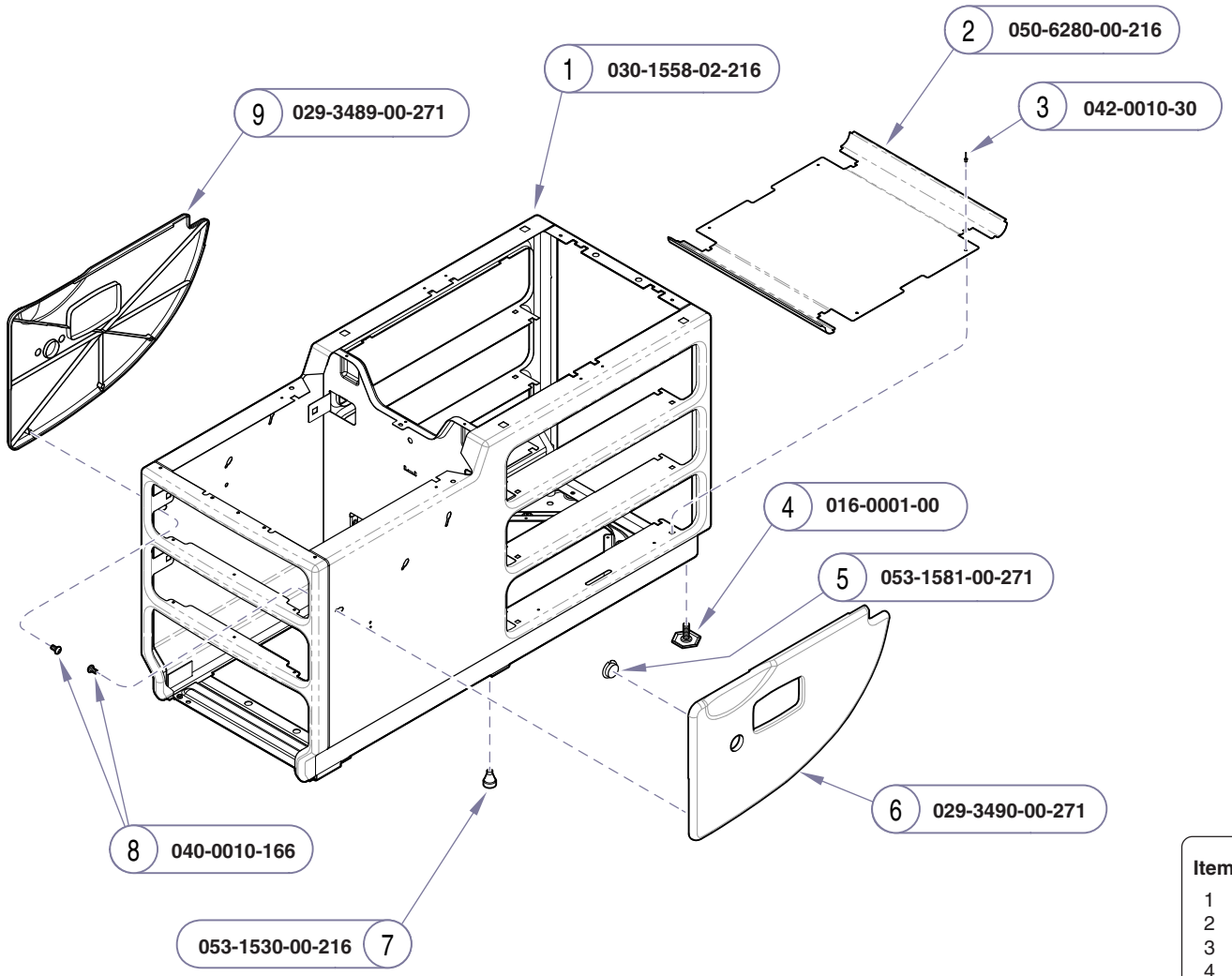

MA704801i

Item	Description	Qty.
1	Midmark Cabinet	1
2	Bottom Panel	1
3	Pop Rivet (5/32")	4
4	Leveling Foot	2
5	Hole Plug	2
6	Side Cladding - *Left*	1
7	Stem Bumper	4
8	Screw *(#10-32 x 3/8")*	4
9	Side Cladding - *Right*	1

Always Specify Model & Serial Number

Midmark Cabinet

Models: ***604 (all)***
Serial Numbers: *V1000 thru V264212*

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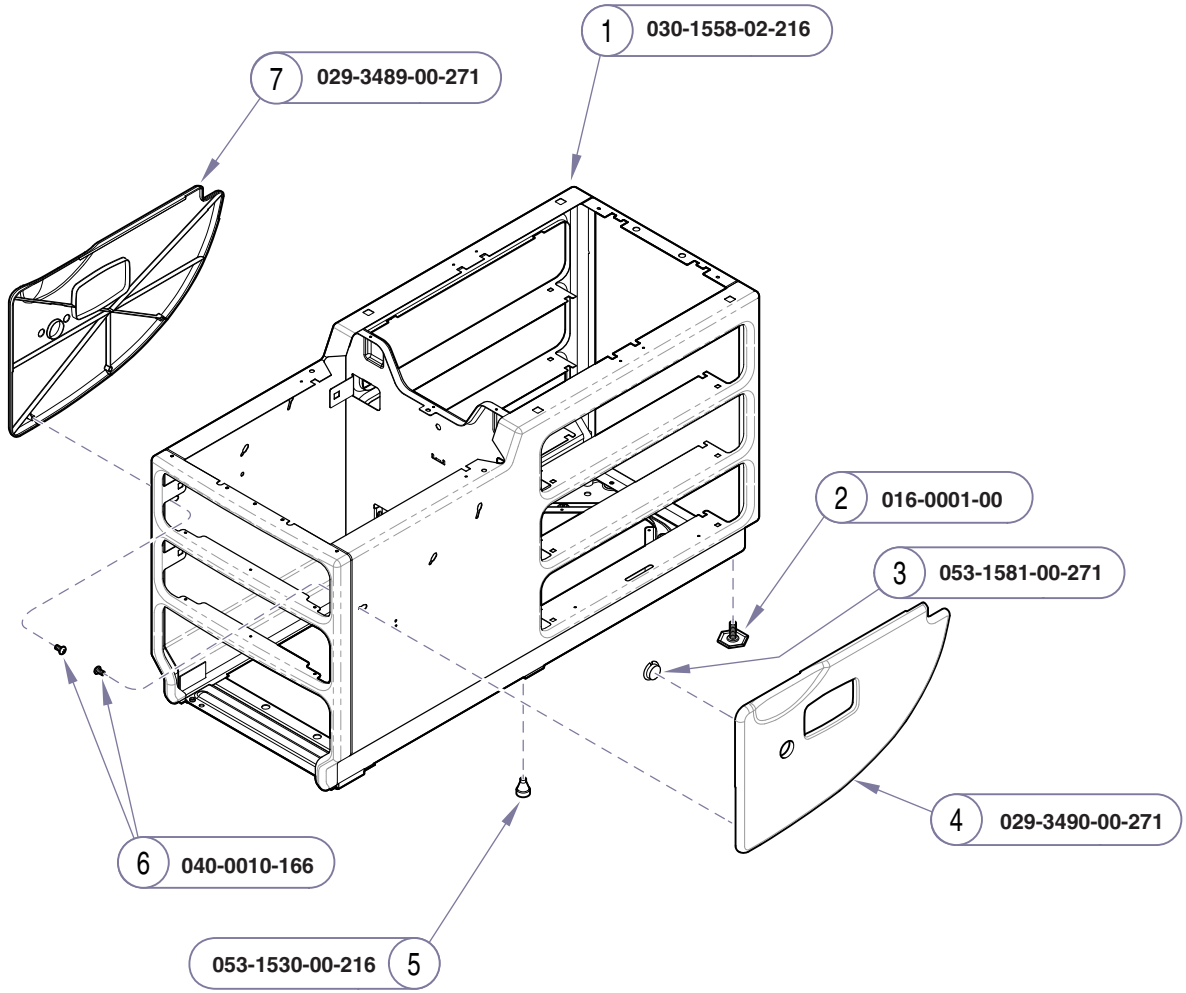

MA704802i

Item	Description	Qty.
1	Midmark Cabinet	1
2	Leveling Foot	2
3	Hole Plug	2
4	Side Cladding - *Left*	1
5	Stem Bumper	4
6	Screw *(#10-32 x 3/8")*	4
7	Side Cladding - *Right*	1

Always Specify Model & Serial Number

Models: ***604 (all)***
Serial Numbers: *V264213 thru V1177444*

Midmark Cabinet

E-13.1

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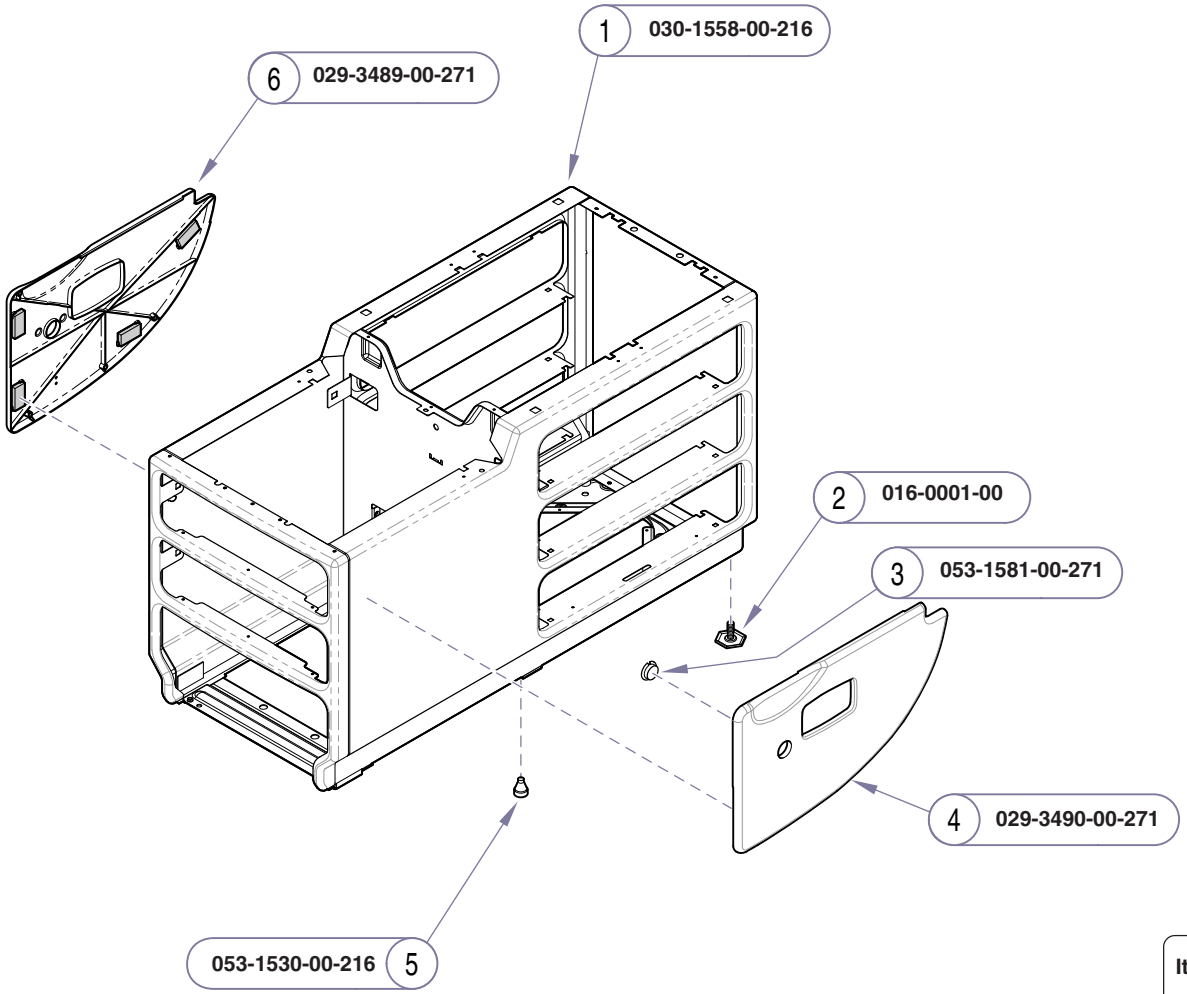

MA704803i

Item	Description	Qty.
1	Midmark Cabinet	1
2	Leveling Foot	2
3	Hole Plug	2
4	Magnetic Side Cladding - *Left*	1
5	Stem Bumper	4
6	Magnetic Side Cladding - *Right*	1

Always Specify Model & Serial Number

Midmark Cabinet

Models: ***604 (all)***
Serial Numbers: *V1177445 thru Present*

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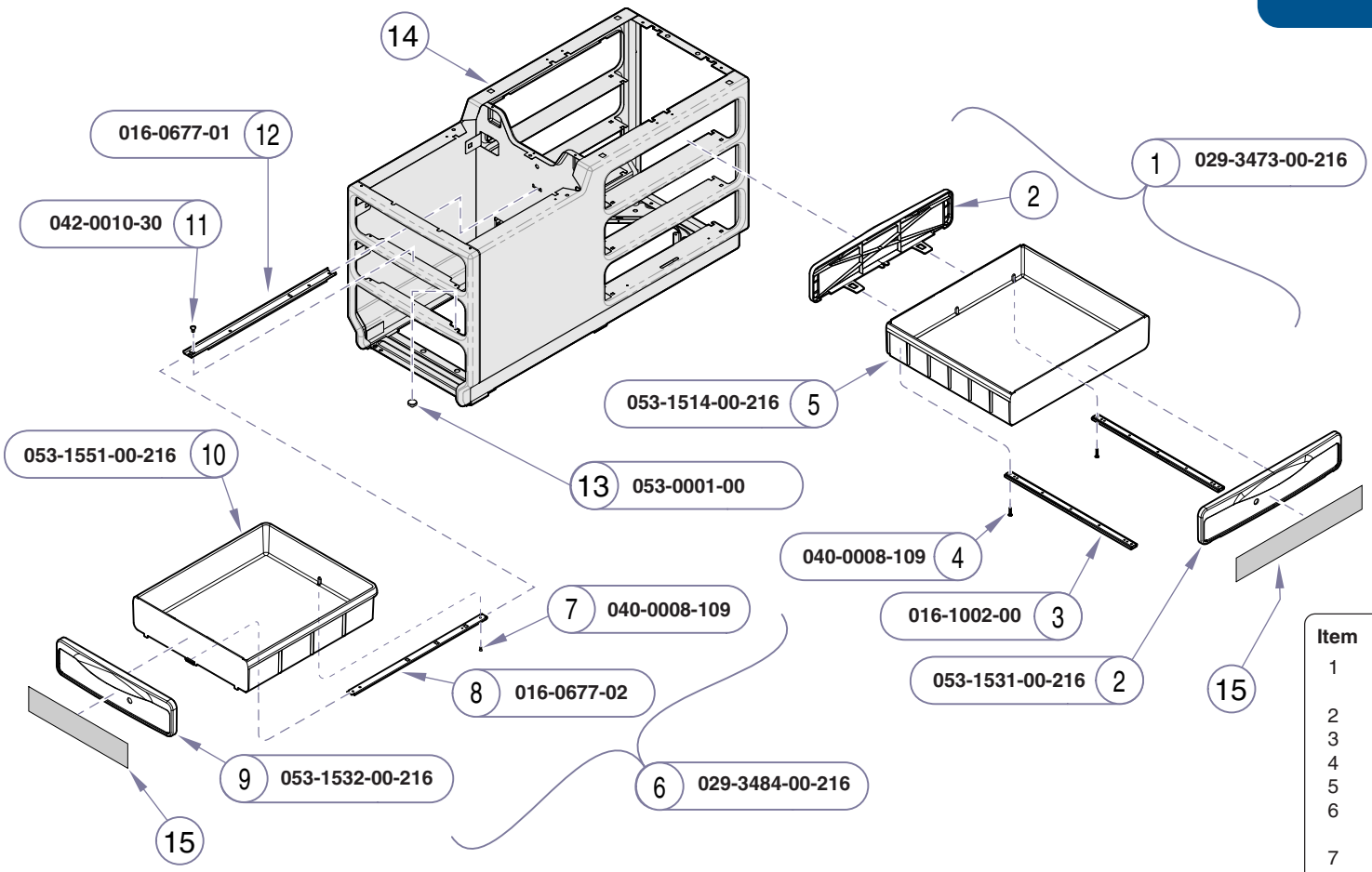
Refer To: **Go To Page:**

Upholstery - Ritter
Soft Touch E-5
Seamless E-6
Rittter Cabinet E-12



MA703500i

Item	Description	Qty.
1	Side Drawer Assembly *(includes items 2 thru 5)*	3
2	• Drawer Front *(side)*	2
3	• Slide Assembly	2
4	• Screw *(#8 x 1")*	4
5	• Drawer *(side)*	1
6	Foot-End Drawer Assembly *(includes items 7 thru 10)*	2
7	• Screw *(#8-32 x 1/2")*	1
8	• Drawer Slide *(foot-end)*	1
9	• Drawer Front *(foot-end)*	1
10	• Drawer *(foot-end)*	1
11	Pop Rivet	2
12	Cabinet Slide	2
13	Stem Bumper	4
14	Refer to: *"Ritter Cabinet"*	Ref
15	Refer to: *"Upholstery - Ritter"*	Ref

Always Specify Model & Serial Number

Ritter Drawers

Models: ***204*** ***(-001 /-002 / -005)***
Serial Numbers: *All*

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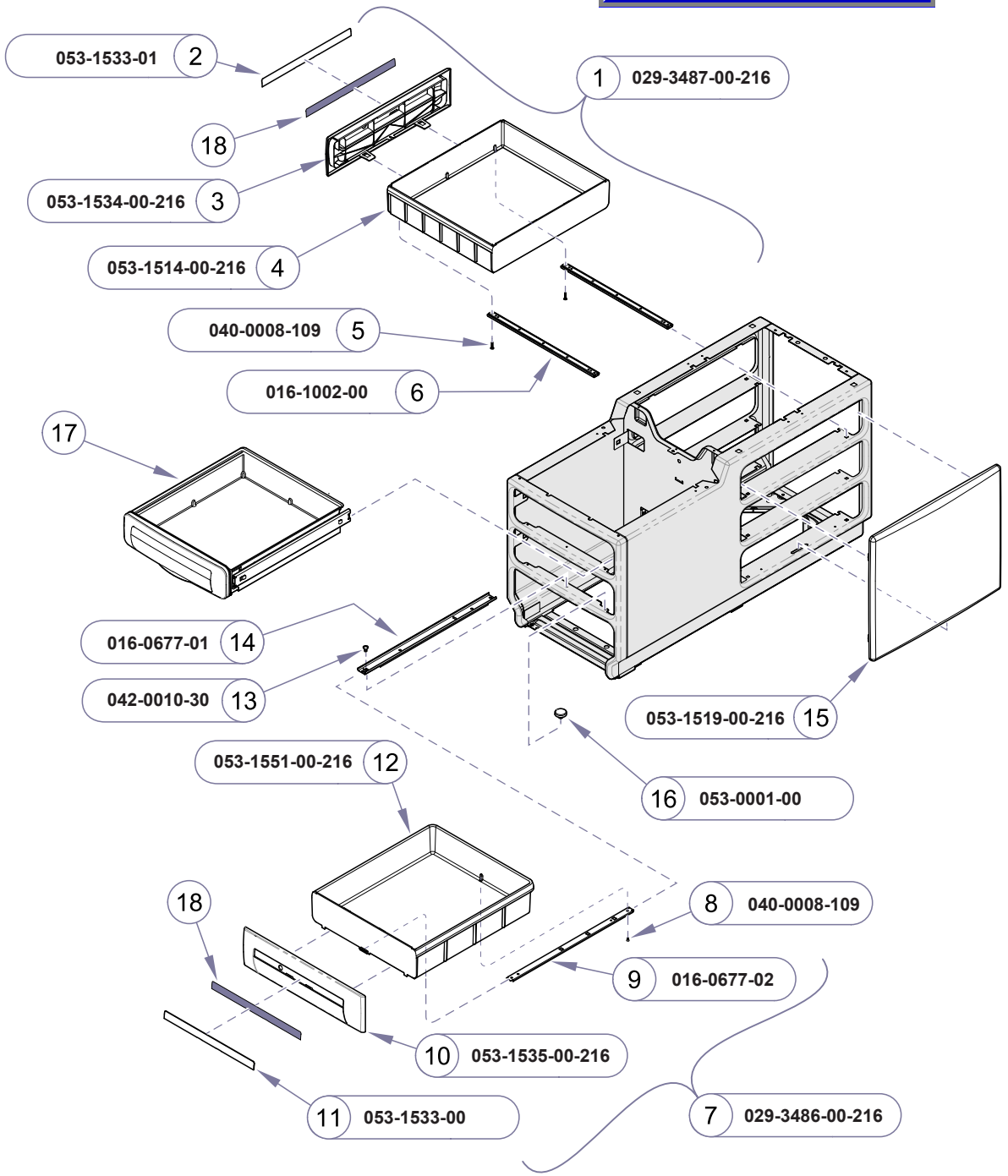

MA704600i

Refer To: **Go To Page:**

Upholstery - Midmark:
Premium E-7
Ultra-Premium E-8
Exam Assistant Drawer Assy E-25

Item	Description	Qty.
1	Side Drawer Assembly *(includes items 2 thru 6)*	3
2	• Insert Cover *(side)*	1
3	• Drawer Front *(side)*	1
4	• Plastic Drawer *(side)*	1
5	• Screw *(#8 x 1", self-tapping)*	2
6	• Drawer Slide Assembly *(side)*	2
7	Foot-End Drawer Assembly *(includes items 8 thru 12)*	2
8	• Screw *(#8 x 1", self-tapping)*	2
9	• Drawer Slide *(foot-end)*	1
10	• Drawer Front *(foot-end)*	1
11	• Insert Cover *(foot-end)*	1
12	• Plastic Drawer *(foot-end)*	1
13	Pop Rivet	1
14	Cabinet Slide *(foot-end)*	1
15	Side Panel	1
16	Stem Bumper	4
17	Refer to: *Exam Assistant™ Drawer Assembly*	Ref
18	Refer to: *"Midmark Upholstery"*	Ref

Always Specify Model & Serial Number

Models: ***604 (all)***
Serial Numbers: *All*

Midmark Drawers

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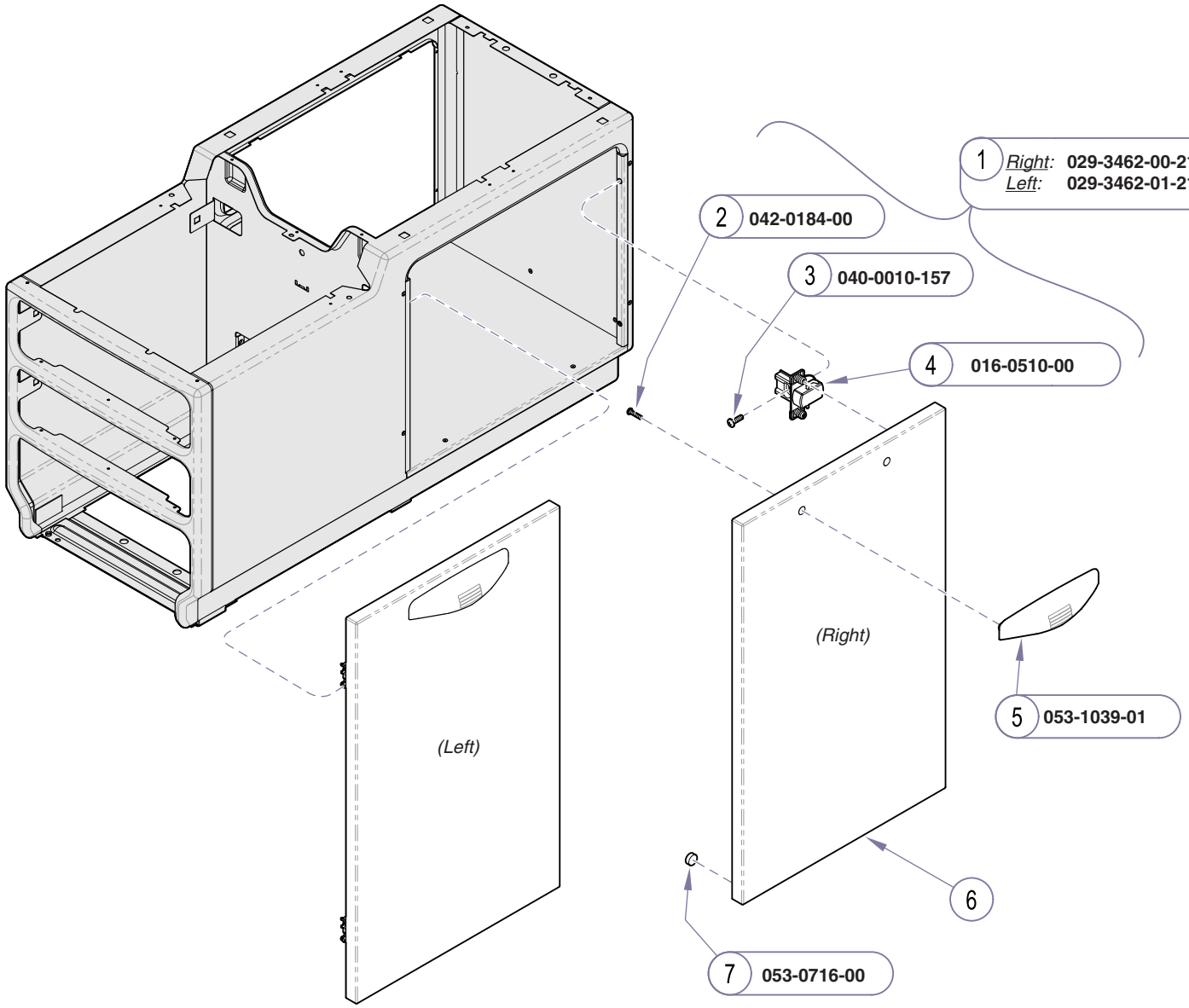

Item	Description	Qty.
1	Door Assembly *(includes items 2 thru 7)*	4
2	• Screw *(K40 x 16)*	2
3	• Screw	2
4	• Hinge	2
5	• Handle	1
6	• Door Panel *(not available)*	1
7	• Bumper	2

Always Specify Model & Serial Number

Bulk Storage Doors

Models: *204 (-003 & -004)*
Serial Numbers: *All*

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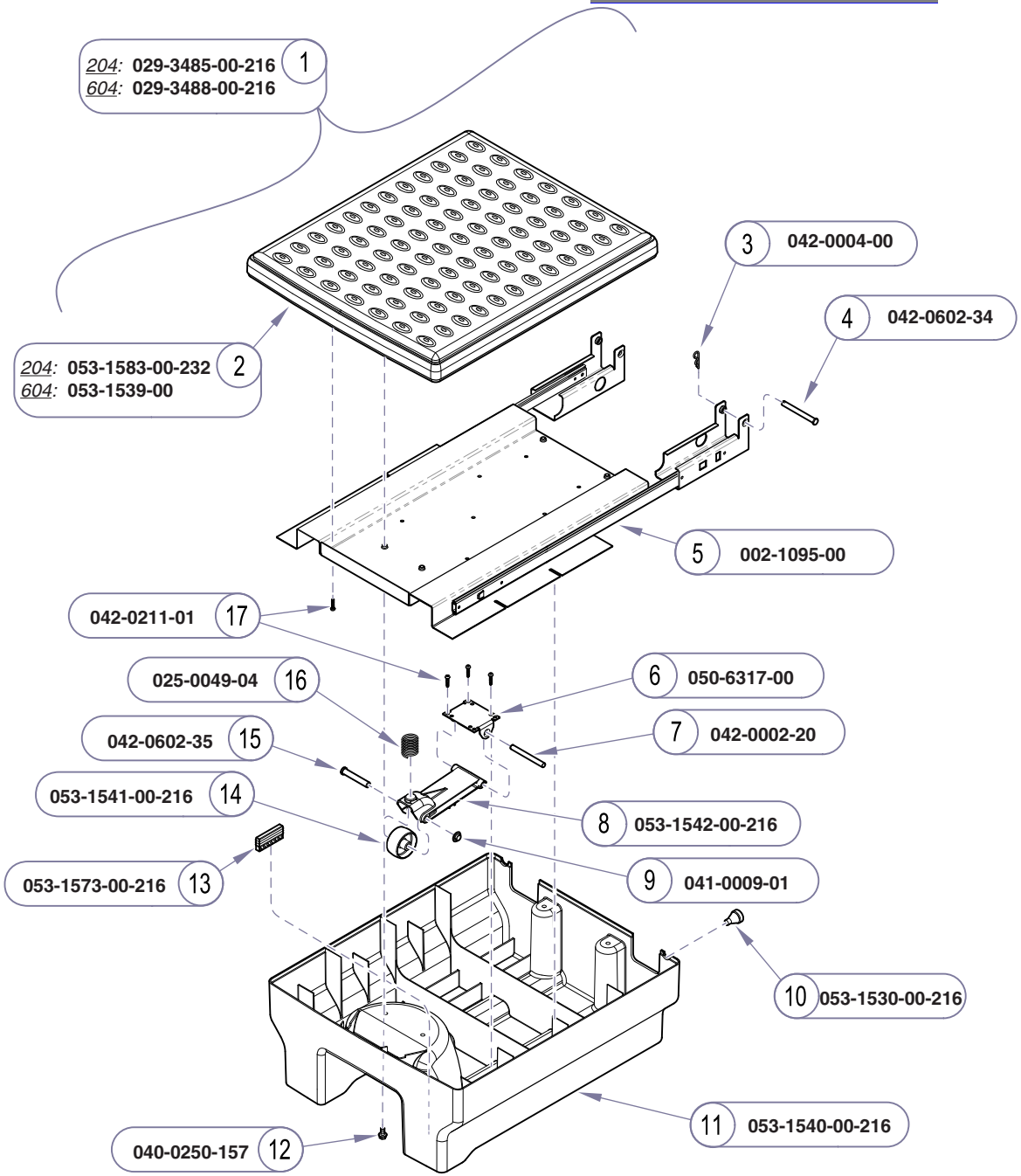

MA703600i

Item	Description	Qty.
1	Step Assembly *(includes items 2 thru 17)*	1
2	• Step Cover *(204 shown)*	1
3	• Hitch Pin	2
4	• Clevis Pin	2
5	• Slide Center Assembly Kit *(includes two slides / mtg. brackets)*	1
6	• Support Bracket	2
7	• Dowel Pin	2
8	• Trailing Arm	2
9	• Push Nut	2
10	• Bumper	2
11	• Step Bottom	1
12	• Hex Bolt *(1/4-20 x 1/2")*	4
13	• Friction Bumper	2
14	• Roller	2
15	• Clevis Pin	2
16	• Spring	2
17	• Screw *(5 x 20 mm)*	10

Always Specify Model & Serial Number

Models: ***All***
Serial Numbers: *All*

Foot Step

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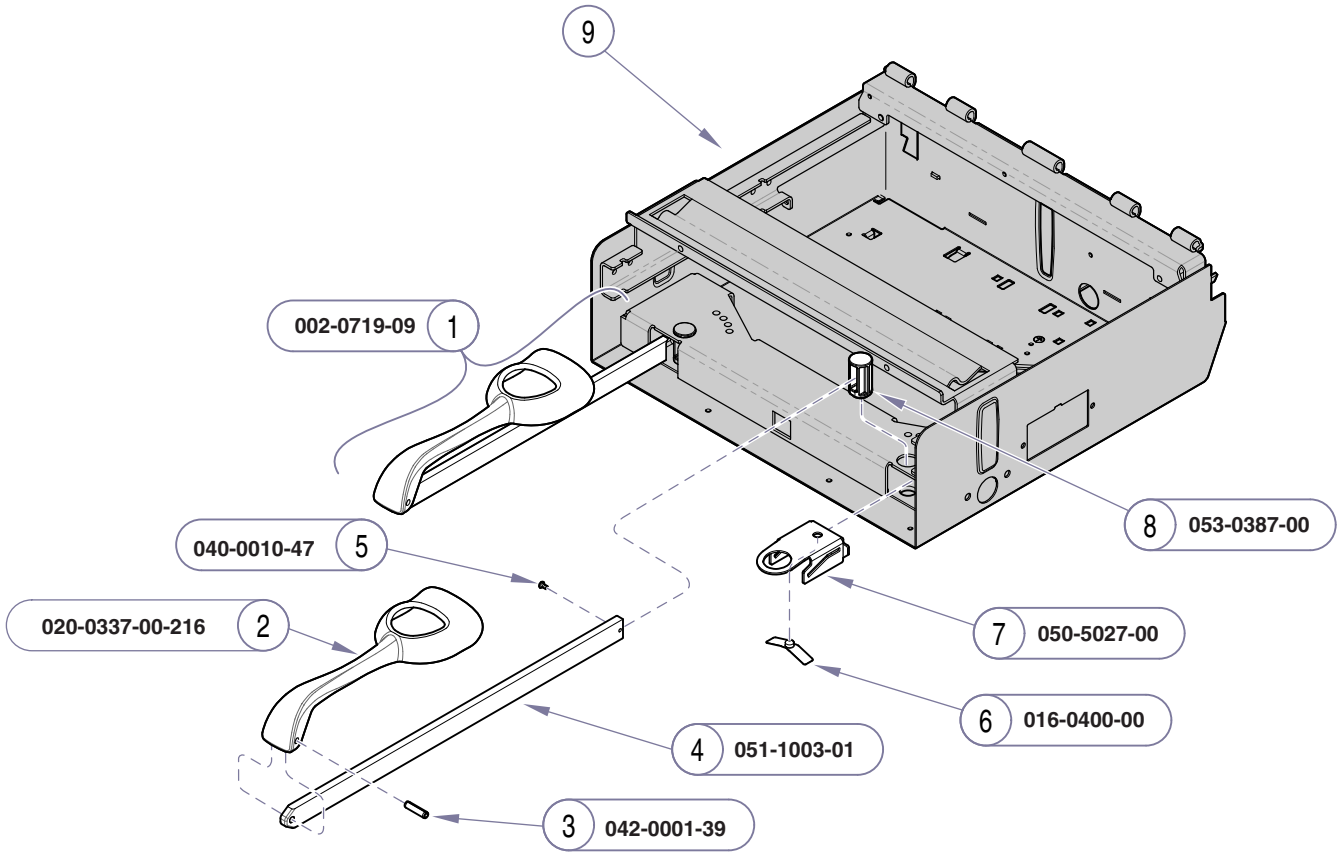
Refer To: *Go To Page:*
Upperwrap & Footrest Shelf:
Ritter E-10
Midmark E-11



MA703900I

Item	Description	Qty.
1	Stirrup Assembly Set (incl. 2 assemblies) *(includes items 2 thru 4)*	1
2	• Stirrup	1
3	• Roll Pin	1
4	• Stirrup Bar	1
5	Screw *(24 - 3/8")*	2
6	Guide Bracket Spring	2
7	Guide Bracket	2
8	Pivot Boss	2
9	Refer to: *"Upperwrap & Footrest Shelf"*	Ref

Always Specify Model & Serial Number

Stirrups

Models: ***All***
Serial Numbers: *All*

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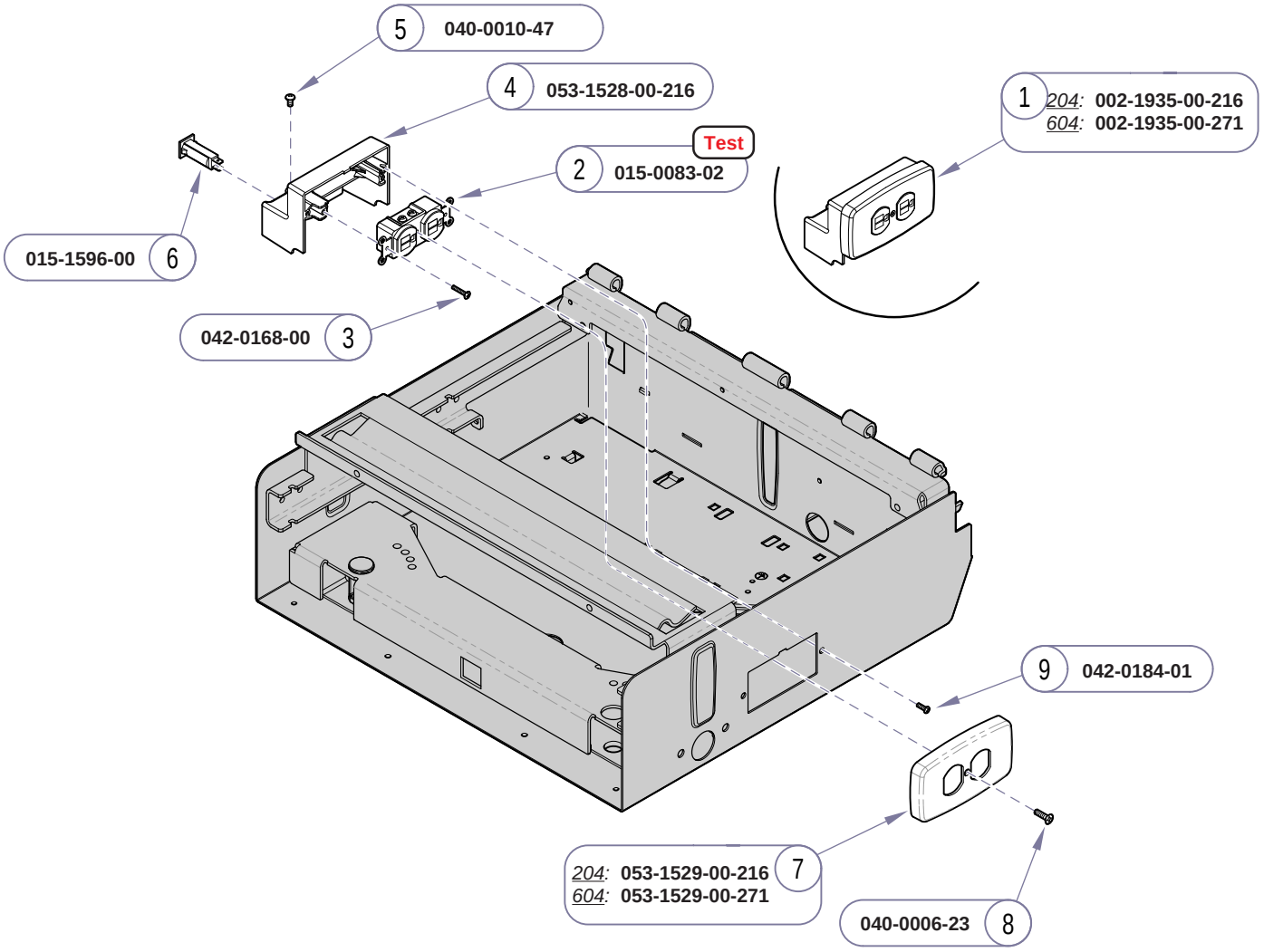
Refer To: *Go To Page:*

Table Receptacle:
Supply Voltage Test B-5
Wiring Diagrams D-1



MA704101i

Item	Description	Qty.
1	Table Receptacle Assembly *(includes items 2 thru 8)*	1
2	• Duplex Receptacle *(w/screws)*	1
3	• Screw *(M3.5 X 10)*	2
4	• Circuit Breaker Housing	1
5	• Screw *(#10-24 x 3/8")*	1
6	• Circuit Breaker *(5 amp)*	2
7	• Receptacle Cover Plate	1
8	• Screw *(#6-32 x 1/2")*	1
9	• Screw *(M4 x 12)*	2

Always Specify Model & Serial Number

Models: *Serial Numbers:*
204 *(-001 thru -004)* *V1000 thru V237758*
604 *(-001 thru -003)* *V1000 thru VV237758*

Table Receptacle System - 120 V

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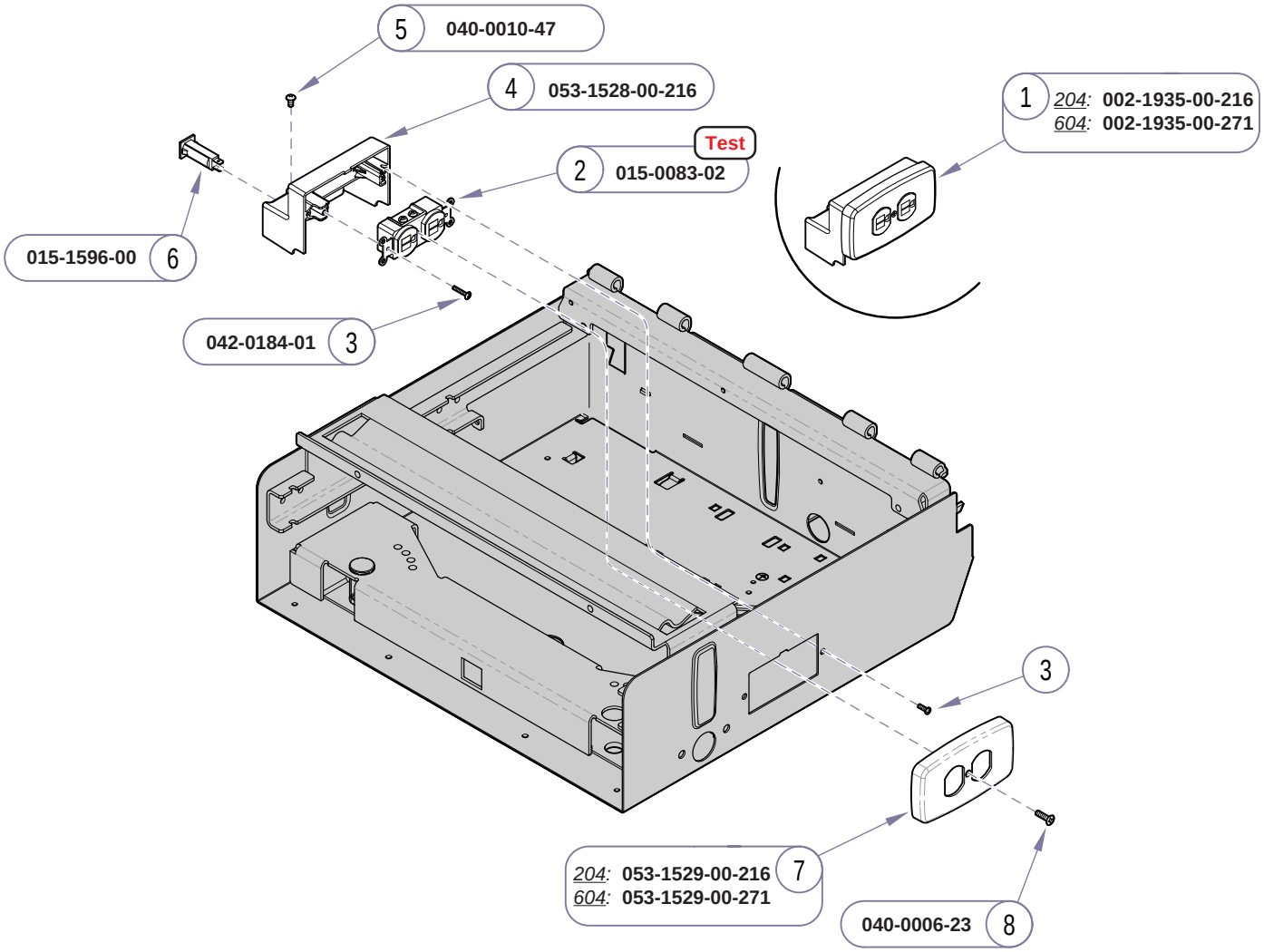
Refer To: — **Go To Page:**
Table Receptacle:
Supply Voltage Test B-5
Wiring Diagrams D-1



MA704102i

Item	Description	Qty.
1	Table Receptacle Assembly *(includes items 2 thru 8)*	1
2	• Duplex Receptacle *(w/screws)*	1
3	• Screw *(M4 x 12)*	4
4	• Circuit Breaker Housing	1
5	• Screw *(#10-24 x 3/8")*	1
6	• Circuit Breaker *(5 amp)*	2
7	• Receptacle Cover Plate	1
8	• Screw *(#6-32 x 1/2")*	1

Always Specify Model & Serial Number

Table Receptacle System - 120 V

Models: *Serial Numbers:*
204 ***(-001 thru -004)*** *V237759 thru Present*
604 ***(-001 thru -003)*** *V237759 thru Present*

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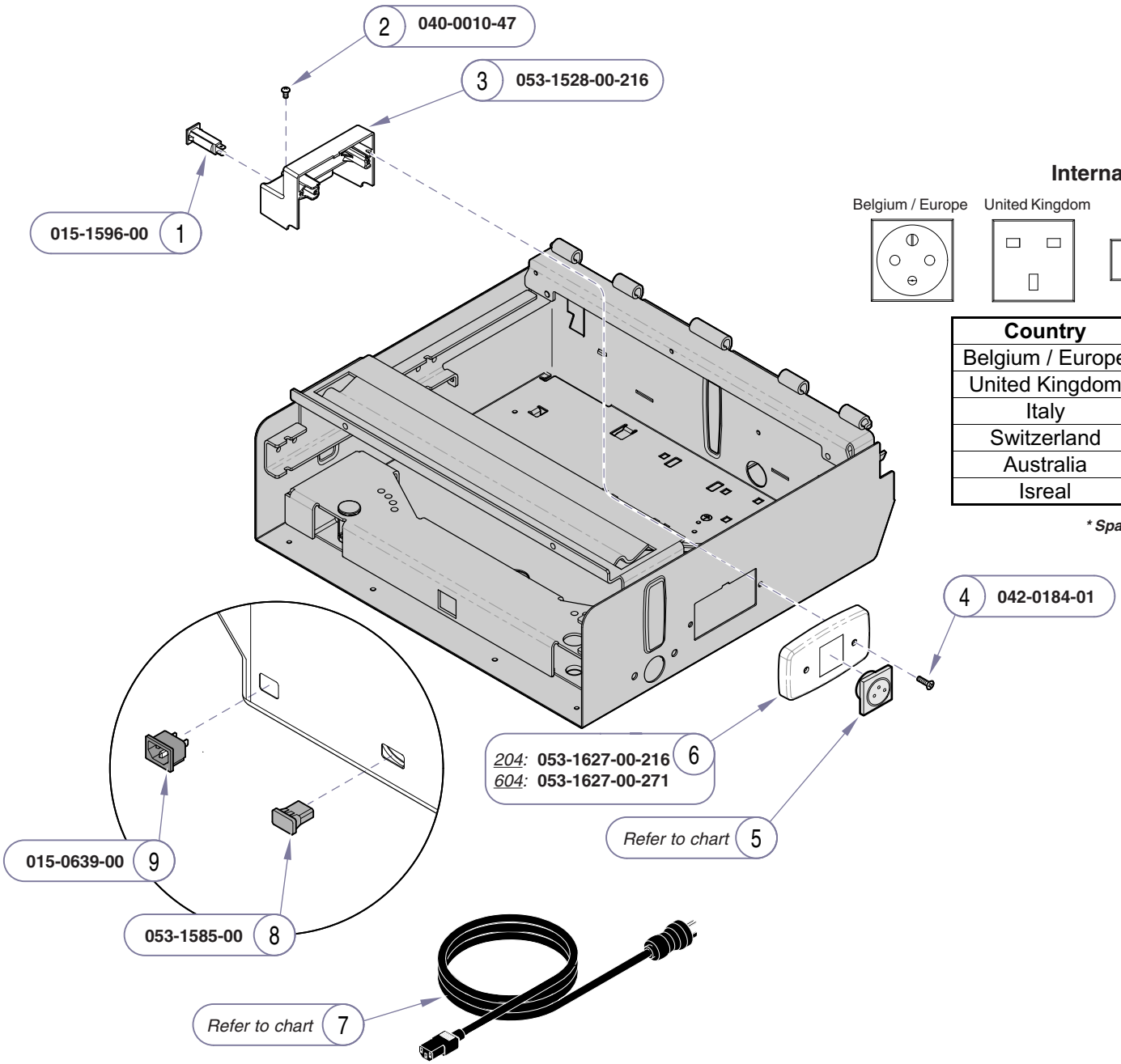
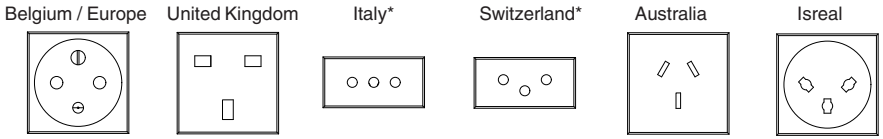
Refer To: *Go To Page:*
Table Receptacle:
Supply Voltage Test B-5
Wiring Diagrams D-1



MA737900i

International Receptacle Styles



Country	Item #5	Item #7
Belgium / Europe	015-1294-00	015-0363-00
United Kingdom	015-1294-02	015-0363-03
Italy	015-1294-03*	015-0363-01
Switzerland	015-1294-04*	015-0363-02
Australia	015-1294-05	015-0363-04
Isreal	015-1294-06	015-0363-05

**** Spacer required (#015-1294-07) - not shown***

Item	Description	Qty.
1	Circuit Breaker *(5 amp)*	2
2	Screw *(#10-24 x 3/8")*	1
3	Circuit Breaker Housing	1
4	Screw *(M4 x 12)*	2
5	Receptacle	1
6	Receptacle Cover Plate	1
7	Power Cord	1
8	Hole Plug	1
9	IEC Inlet	1

Always Specify Model & Serial Number

Models: *Serial Numbers:*	***204*** *(-006 & -007)* *All*	***604*** *(-005 & -006)* *All*

Table Receptacle System - 230 V

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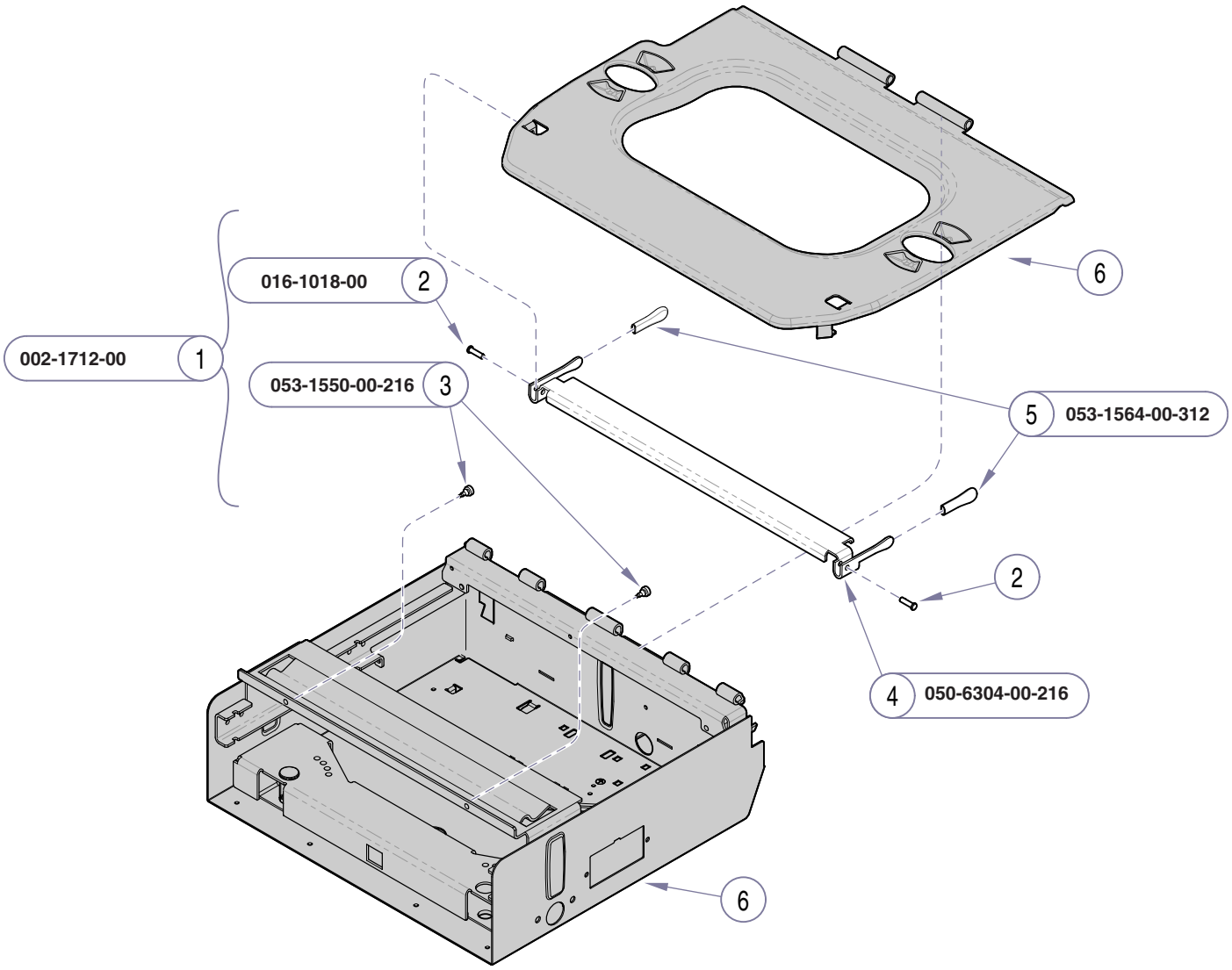
Refer To: **Go To Page:**

Upperwrap & Footrest Shelf:

Ritter E-10
Midmark E-11



MA704900i

Item	Description	Qty.
1	Pelvic Tilt Assembly *(includes items 2 thru 5)*	1
2	• Pivot Pin	2
3	• Bumper	2
4	• Bracket	1
5	• Handle	2
6	Refer to: *"Upperwrap & Footrest Shelf"*	Ref

Always Specify Model & Serial Number

Pelvic Tilt

Models: *Serial Numbers:*	***204*** *(-002 /-004 /-005)* *All*	***604*** *(-002 thru -004)* *All*

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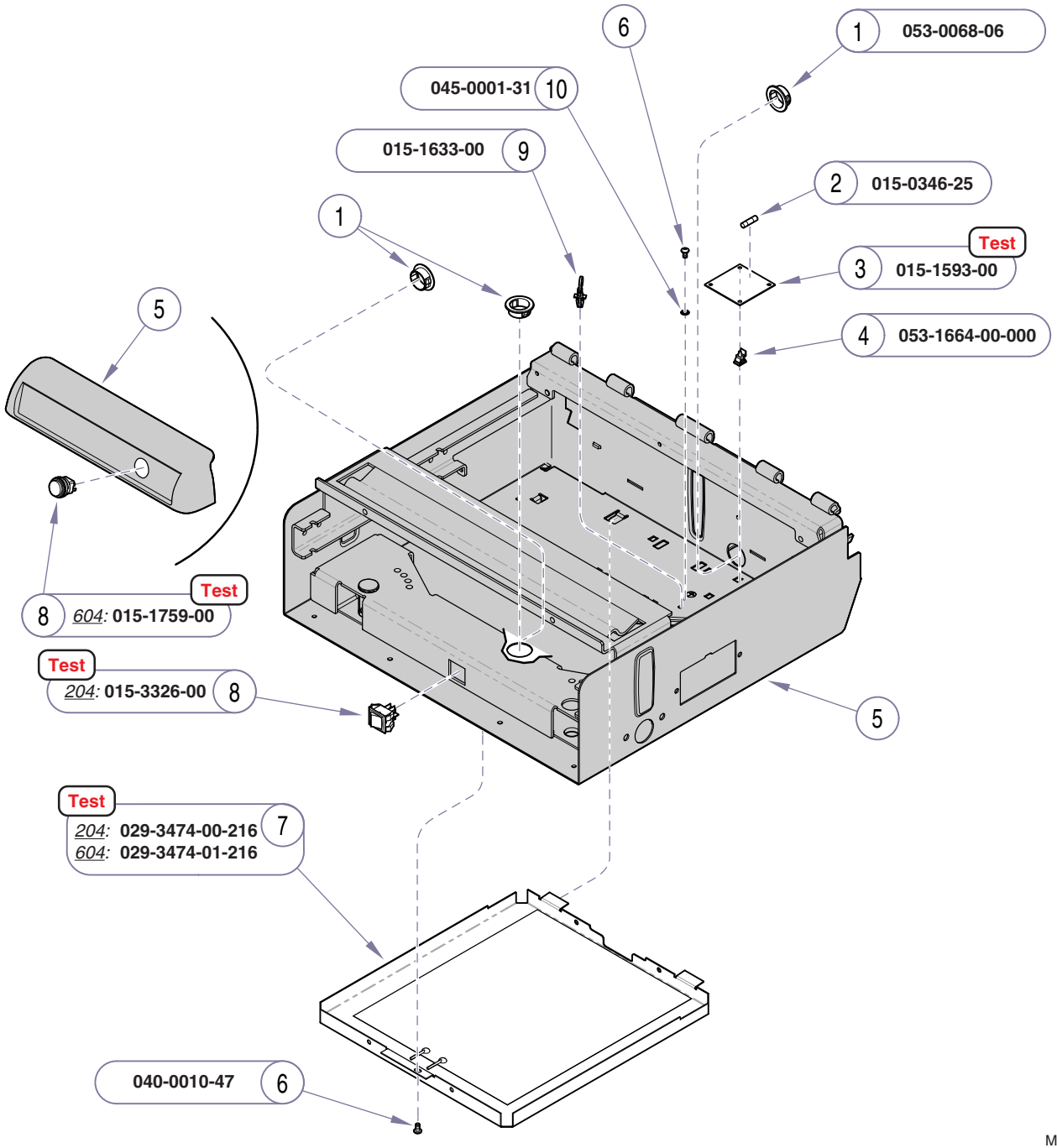

Refer To: *Go To Page:*
Drawer Heater System Test B-6
Upperwrap & Footrest Shelf:
Midmark E-11

Item	Description	Qty.
1	Snap Bushing	3
2	Fuse *(250V, 0.8 amp, 5 x 20 mm, Time-Lag)*	2
3	Distribution Board	1
4	Standoff	4
5	Refer to: *MidmarkUpperwrap & Footrest Shelf*	Ref
6	Screw *(#10-24 x 3/8")*	2
7	Heater Plate Kit *(includes item 8, and one each of items 1 & 6)*	1
8	• Drawer Heater Switch	1
9	Cable Tie	2
10	Lockwasher *(#10)*	1

Always Specify Model & Serial Number

Models: *Serial Numbers:*	***204*** *(-001 thru -004)* *All*	***604*** *(-002 & -003)* *All*

Drawer Heater System - 120 V

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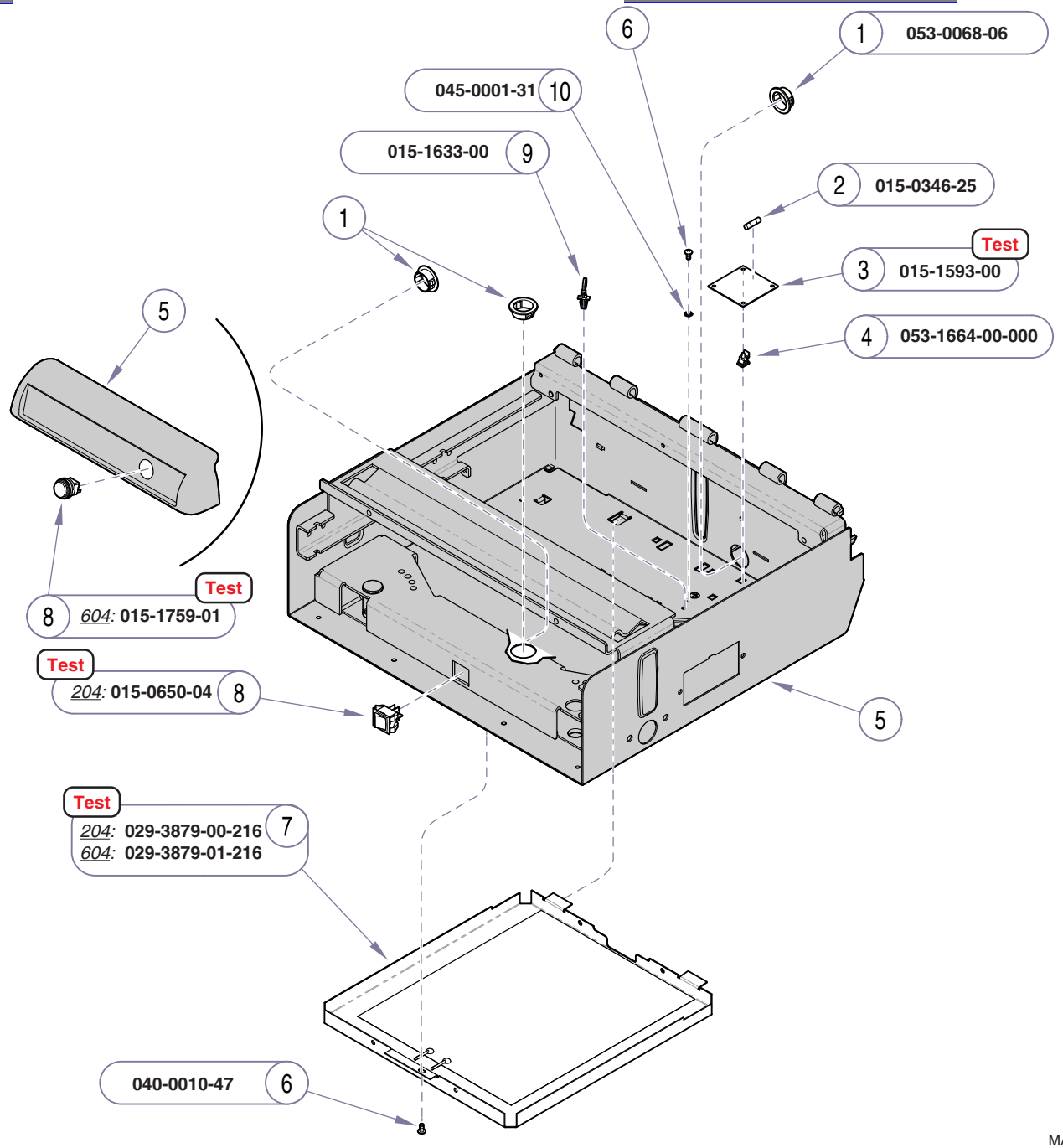

MA705200i

Refer To: *Go To Page:*

Drawer Heater System Test B-6

Upperwrap & Footrest Shelf:

Midmark E-11

Item	Description	Qty.
1	Snap Bushing	3
2	Fuse *(250V, 0.8 amp, 5 x 20 mm, Time-Lag)*	2
3	Distribution Board	1
4	Standoff	4
5	Refer to: *MidmarkUpperwrap & Footrest Shelf*	Ref
6	Screw *(#10-24 x 3/8")*	2
7	Heater Plate Kit *(includes item 8, and one each of items 1 & 6)*	1
8	• Drawer Heater Switch	1
9	Cable Tie	2
10	Lockwasher *(#10)*	1

Always Specify Model & Serial Number

Drawer Heater System - 230 V

Models: *Serial Numbers:*	***204*** *(-007)* *All*	***604*** *(-006)* *All*

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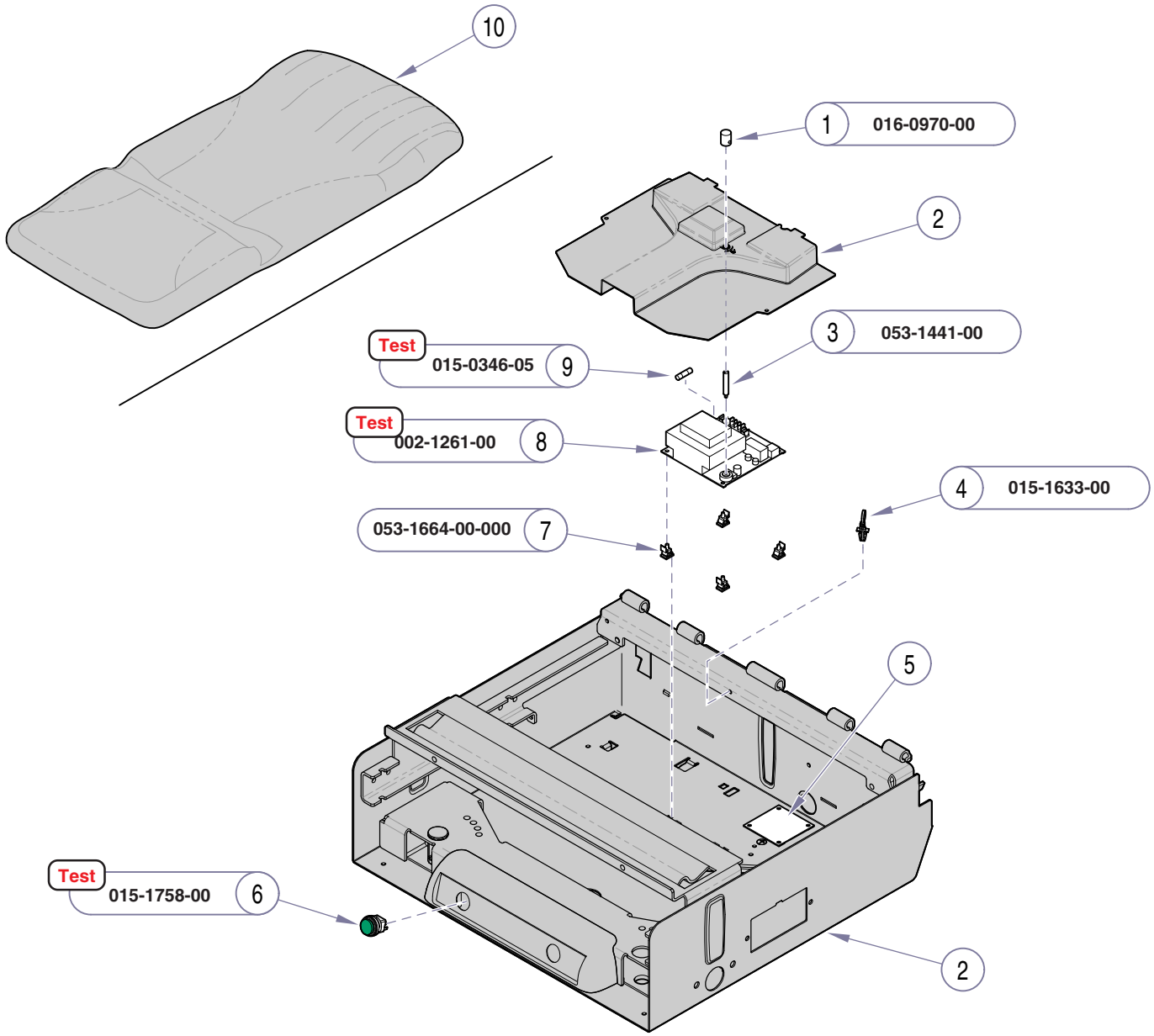
Refer To: *Go To Page:*

Uph. Heater System Test B-14
Upperwrap & Footrest Shelf:
Midmark E-11
Midmark Upholstery:
Premium E-7
Ultra-Premium E-8



MA705300i

Item	Description	Qty.
1	Adjustment Knob	1
2	Refer to: *Midmark Upperwrap & Footrest Shelf*	Ref
3	Adjustment Shaft	1
4	Cable Tie	3
5	Refer to: *Drawer Heater System*	Ref
6	Upholstery Heater Switch *(green)*	1
7	Standoff	4
8	Uph. Heater PC Board Kit *(includes items 2 & 9)*	1
9	• Fuse *(250V, .5A, Slo-Blo, 1/4" x 1-1/4")*	2
10	Refer to: *Midmark Upholstery*	Ref

Always Specify Model & Serial Number

Models: ***604 (-003)***
Serial Numbers: *V2200 thru V857486*

Upholstery Heater System

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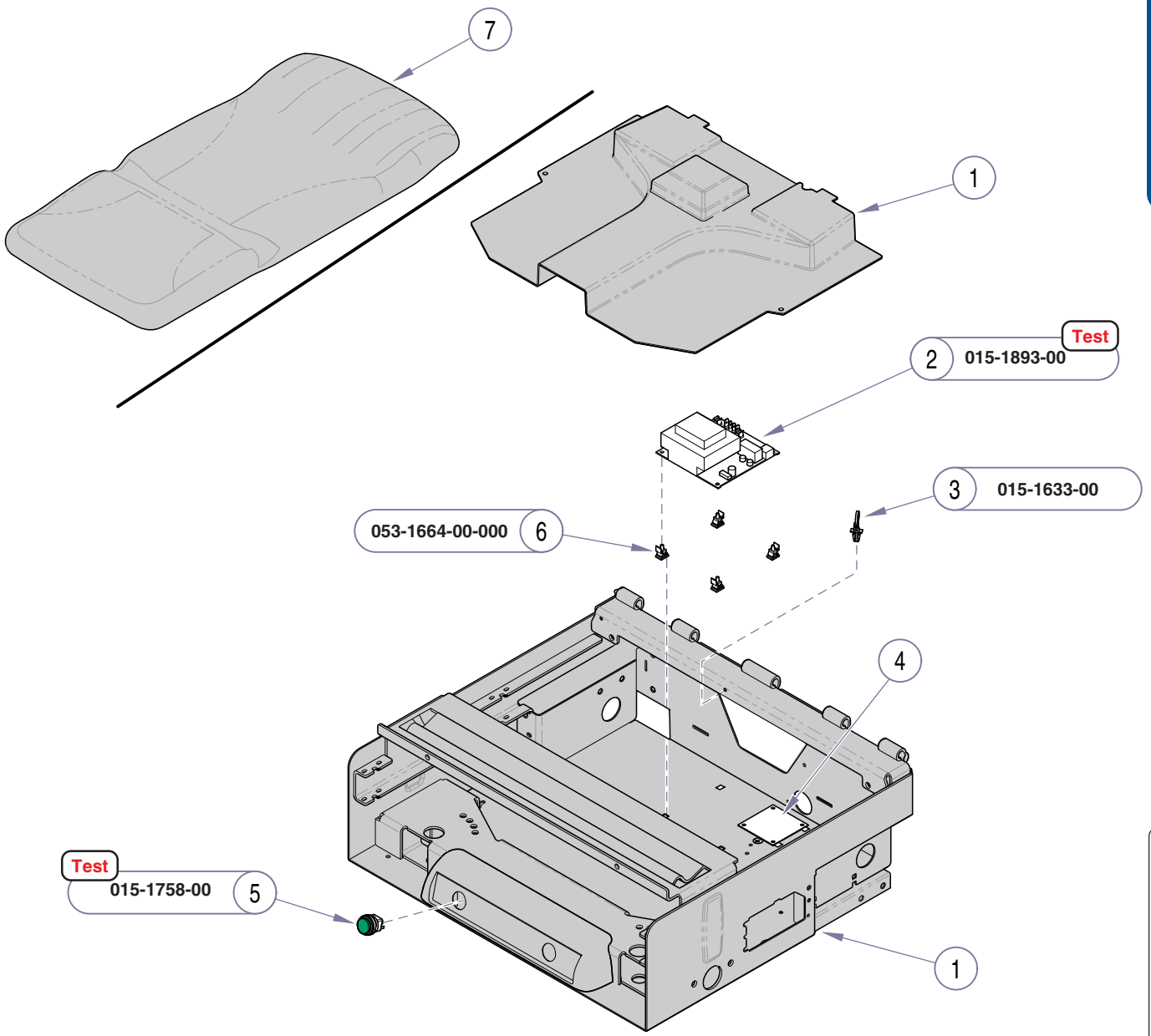
Refer To: *Go To Page:*
Uph. Heater System Test B-14
Upperwrap & Footrest Shelf:
Midmark E-11
Midmark Upholstery:
Premium E-7
Ultra-Premium E-8



Item	Description	Qty.
1	Refer to: *"Midmark Upperwrap & Footrest Shelf"*	Ref
2	Upholsery Heater PC Board	1
3	Wrap-n-Tap Wire Tire	3
4	Refer to: *"Drawer Heater System"*	Ref.
5	Upholstery Heater Switch *(green)*	1
6	PC Board Standoffs	4
7	Refer to: *"Upholstery - Midmark"*	Ref

Always Specify Model & Serial Number

Upholstery Heater System

Models: *604 (-003)*
Serial Numbers: *V857487 thru present*

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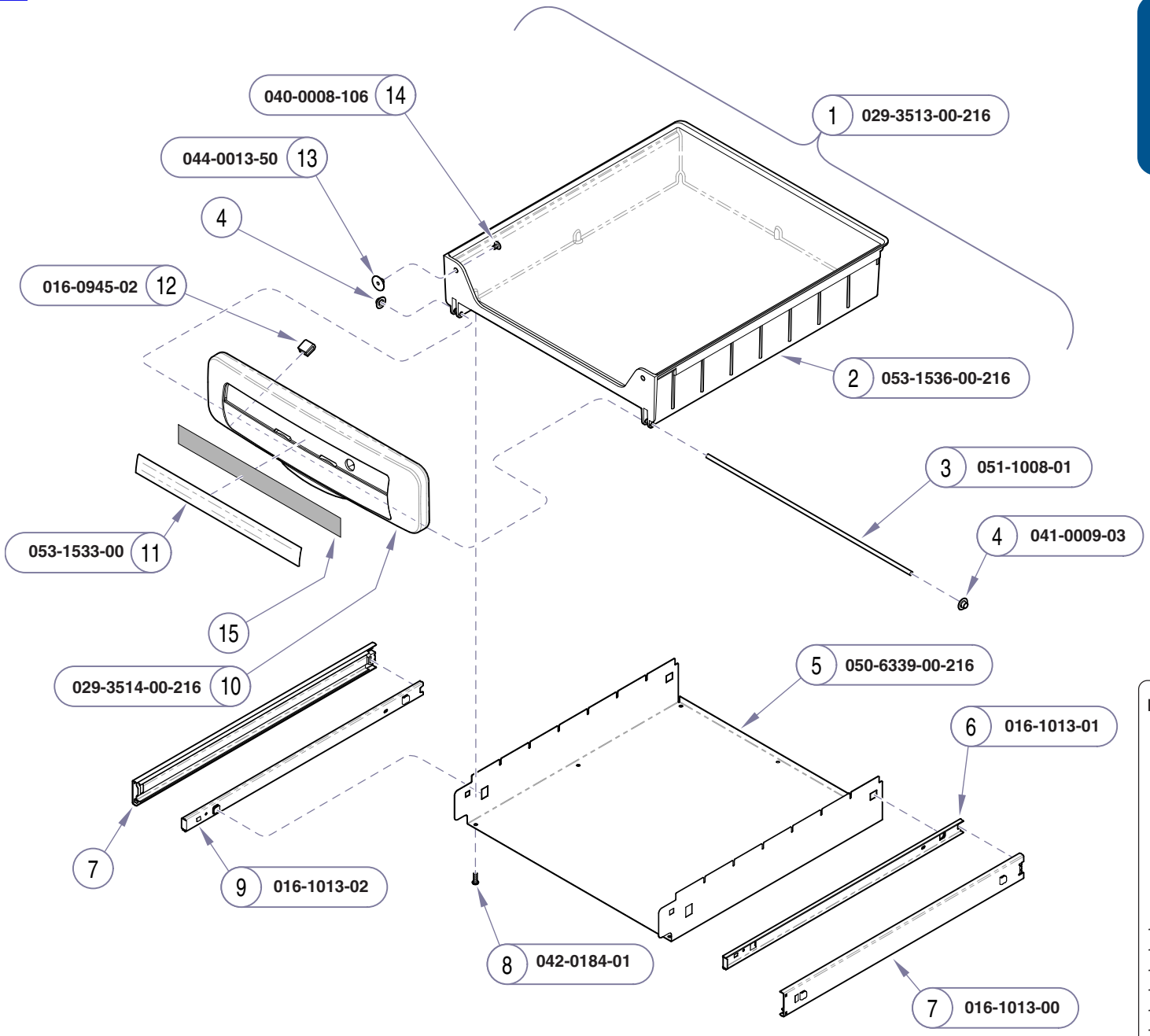

MA706100i

Refer To: Go To Page:
Midmark Upholstery:
Premium E-7
Ultra-Premium E-8

Item	Description	Qty.
1	Exam Assistant™ *Drawer Assembly (includes items 2 thru 14)*	1
2	• Fold-Down Drawer	1
3	• Pivot Rod	1
4	• Push Nut	2
5	• Drawer Mount	1
6	• Inner Drawer Slide *(right)*	1
7	• Outer Drawer Slide	2
8	• Screw *(M4 x 12mm)*	4
9	• Inner Drawer Slide *(left)*	1
10	• Fold-Down Drawer Front	1
11	• Insert Cover *(clear)*	1
12	• Edge Trim	2
13	• Weld Nuts	2
14	• Screw *(#8-32 x 1/4)*	2
15	Color Insert Refer to: *Upholstery - Midmark*	1

Always Specify Model & Serial Number

Models: *604 (all)*
Serial Numbers: *All*

Exam Assistant™ Drawer Assembly

Rev. 11/06

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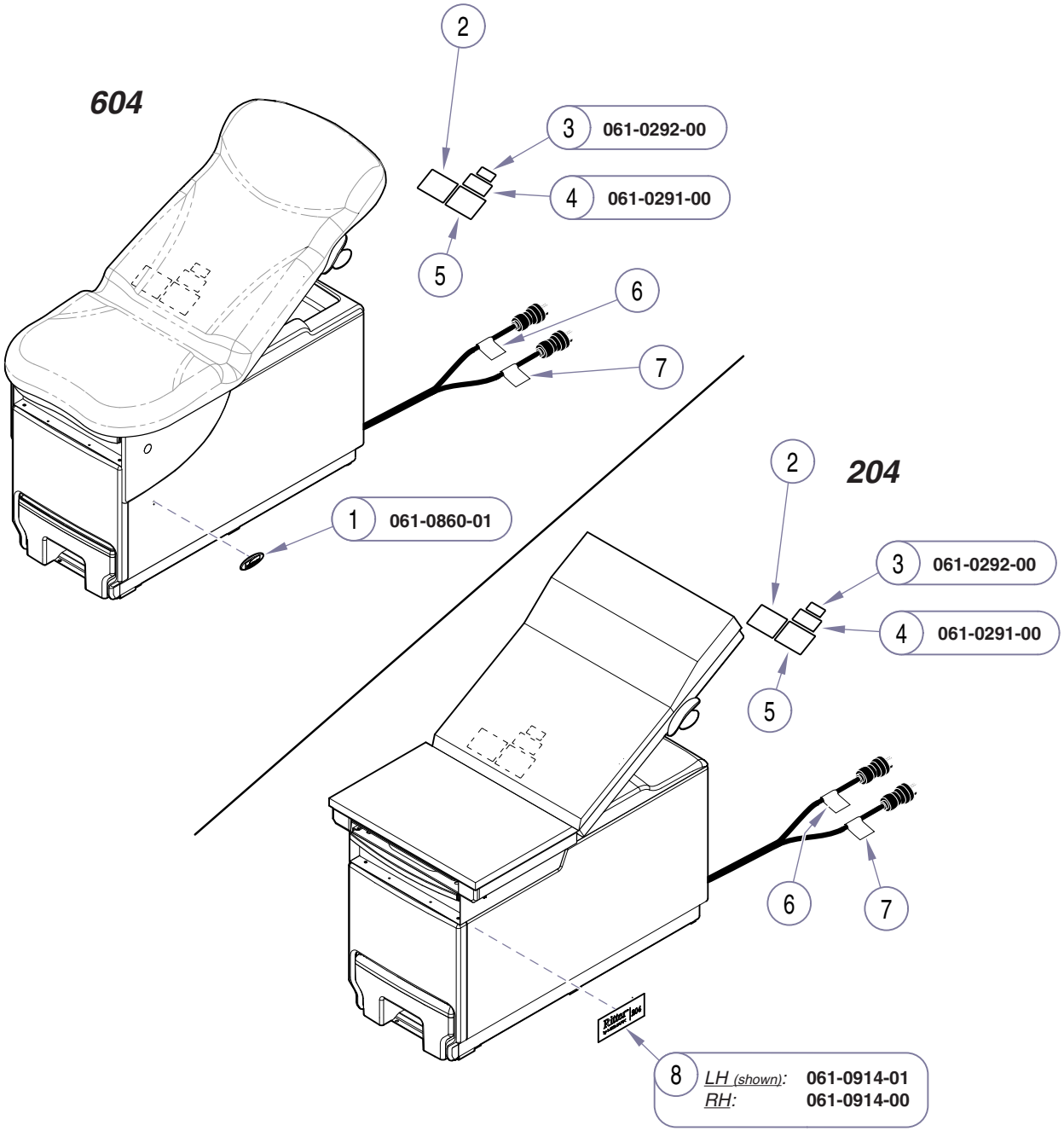

MA706400i

Item	Description	Qty.
1	Midmark Nameplate	2
2	ETL Label	1
3	Patent Pending Label	1
4	Patent Numbers Label	1
5	Serial Number Label	1
6	Power Cord Label *(standard)*	1
7	Power Cord Label *(dual)*	1
8	Ritter 204 Label	1

Always Specify Model & Serial Number

Label Location

Models: ***All***
Serial Numbers:

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If an error is found, please list the page and paragraph/figure in which the error was found along with a brief description of what the error is. If the correction to the error is known, please include that information also. If a change, addition, or deletion is being requested, please list the page and paragraph/figure needing the change, along with a brief description of how you feel the paragraph/figure should be changed.

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Page Number	Paragraph/Figure	Description

ATTENTION: CUSTOMER SERVICE DEPARTMENT

IMPORTANT NOTES:

1) ***Use this form for all non-warranty orders only***. *Warranty orders must be telephoned in (1-800-643-6275).*

2) *FAX number to send order to: 877-249-1793*

3) *All emergency orders must be received @ Midmark by 1:00 pm EST.*

4) *All underlined headings should be filled in prior to submittal.*

ADDITIONAL COMMENTS:

SERVICE PARTS FAX ORDERING FORM

(Do not tear out this page. Photo copy this page for use only.)

MIDMARK®

DATE: ____ / ____ / _____ TIME: _____ am pm

METHOD OF SHIPMENT: _____

PRIORITY: ☐ NON-EMERGENCY ORDER {to ship within 72 hours if part(s) are in stock.}

☐ EMERGENCY ORDER {to ship within 24 hours if part(s) are in stock.} [see note 3]

DEALER P.O. #: _____

ACCOUNT #: _____

MODEL #:	SERIAL #:	SALES ORDER # (if applicable)

NAME: _____

ADDRESS: _____

CITY: _____ STATE: ____ ZIP: _____

CONTACT: _____

PHONE: _____

FAX #: _____

SHIP TO: _____

LINE #	PART NUMBER	QTY.	DESCRIPTION	COLOR (if applicable)

CREDIT CARD INFORMATION

CARD TYPE _____ CARD #_____-_____-_____-_____ EXP. DATE _____ / _____ / _____

NAME ON CARD _____ SIGNATURE _____

Back

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